



Utah Water Assessment & Conditions Monitoring (Drought Webinar)

The meeting will begin shortly



Thank you to our contributors



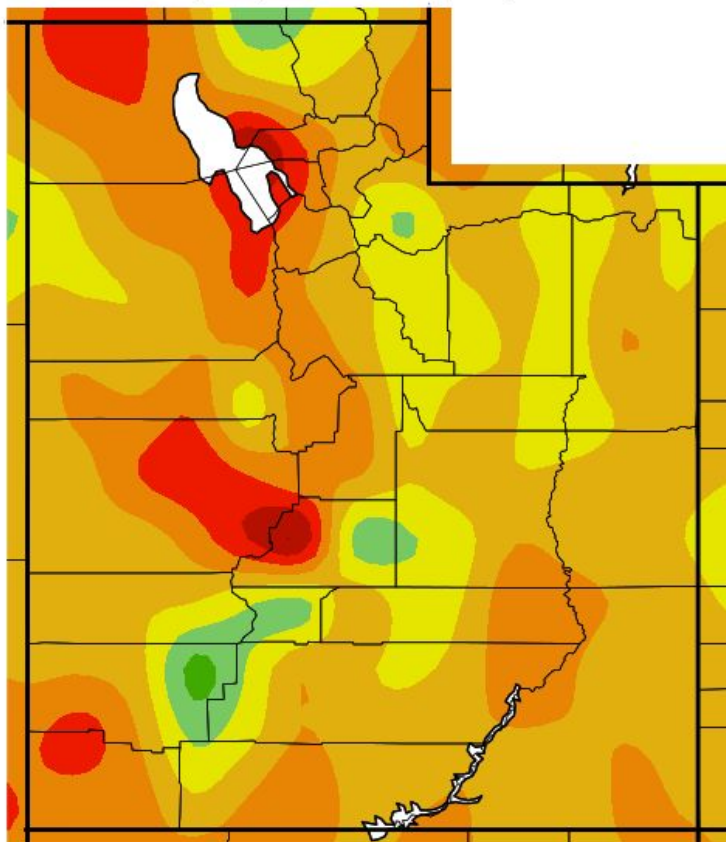


Utah Water Assessment & Conditions Monitoring Webinar

July 26, 2022

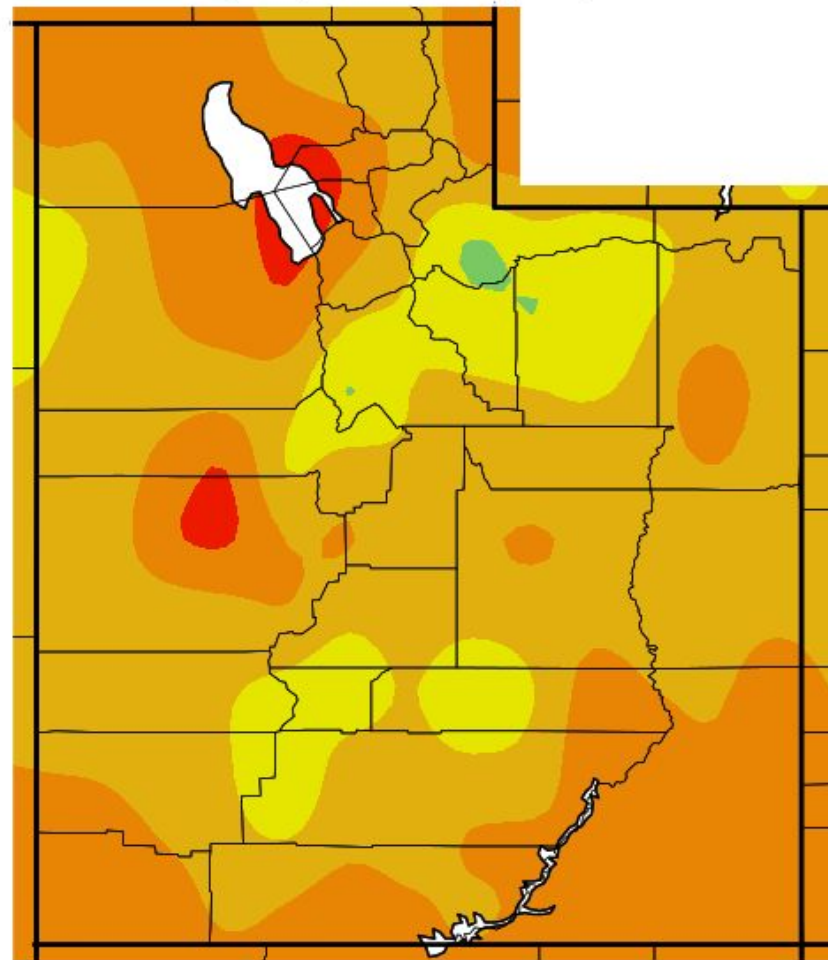
Temperature (2-month & 2-week)

Av. Max. Temperature dep from Ave (deg F)
5/27/2022 – 7/25/2022



Generated 7/26/2022 at WRCC using provisional data.
NOAA Regional Climate Centers

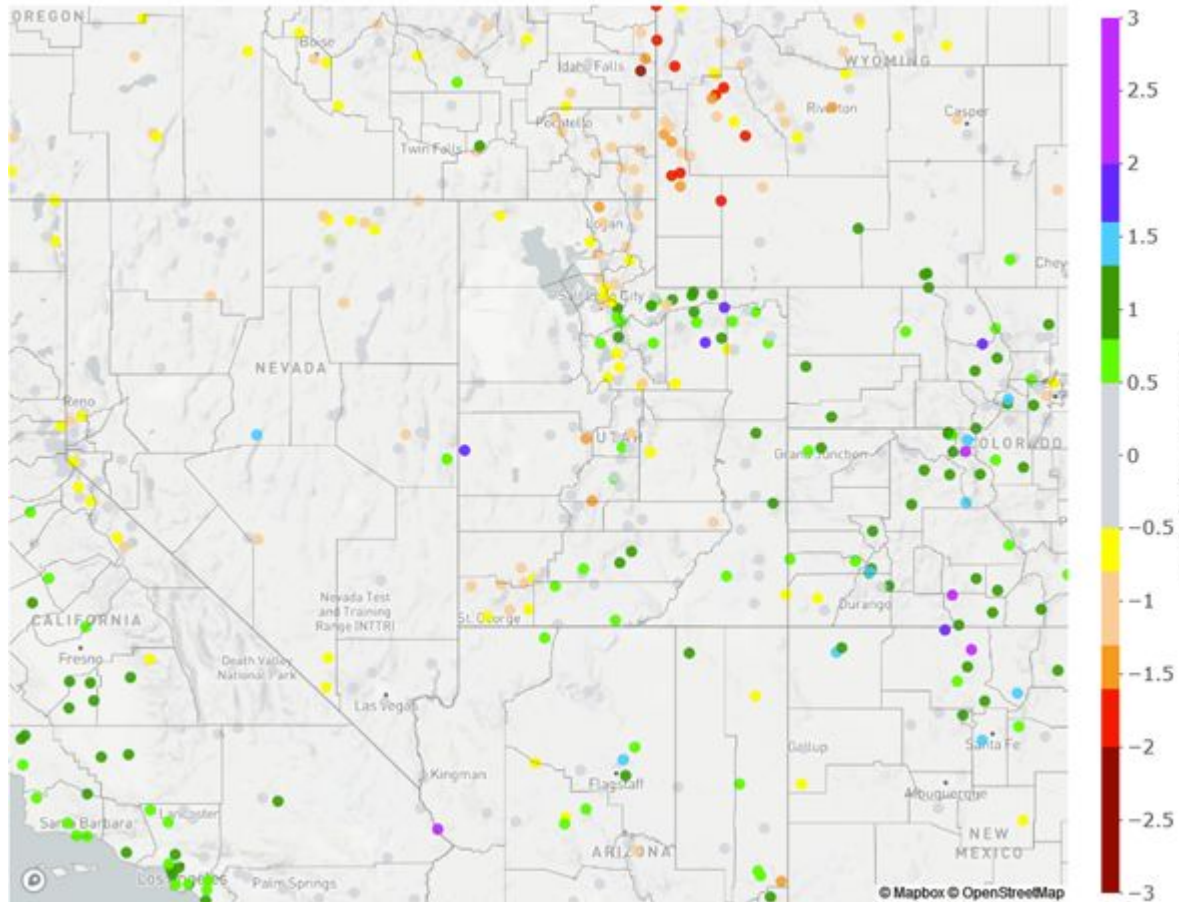
Av. Max. Temperature dep from Ave (deg F)
7/12/2022 – 7/25/2022



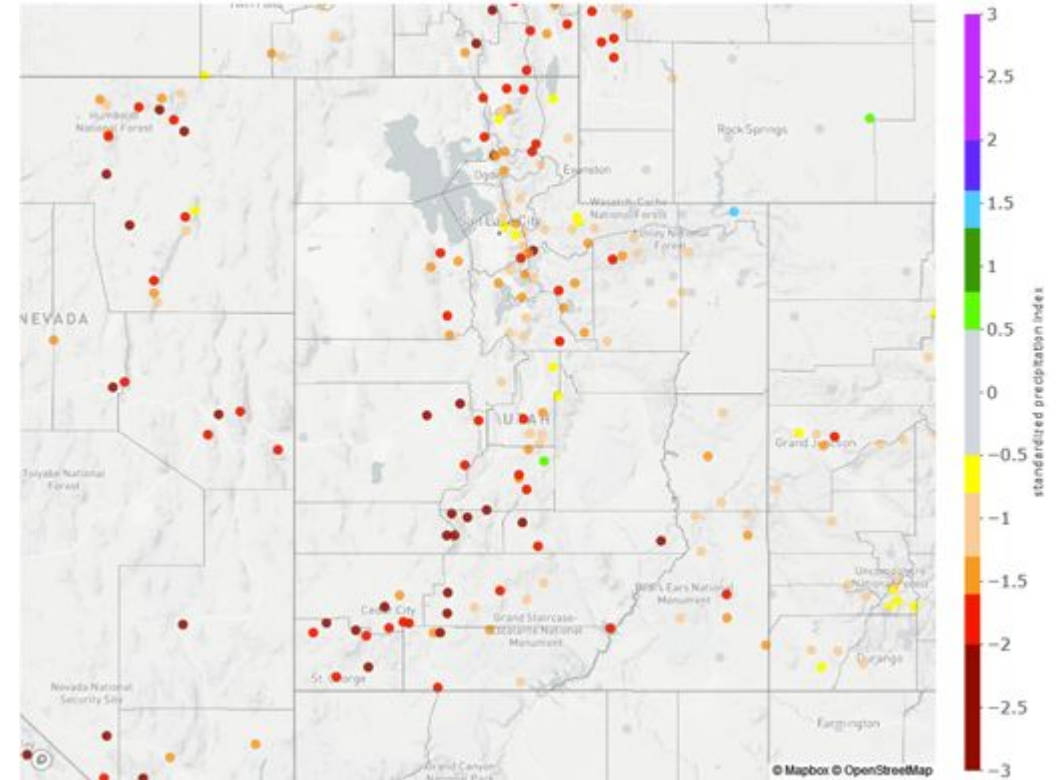
Generated 7/26/2022 at WRCC using provisional data.
NOAA Regional Climate Centers

Precipitation (30-day & 6-month SPI)

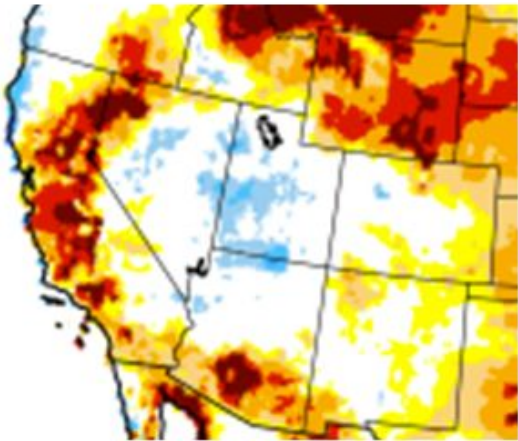
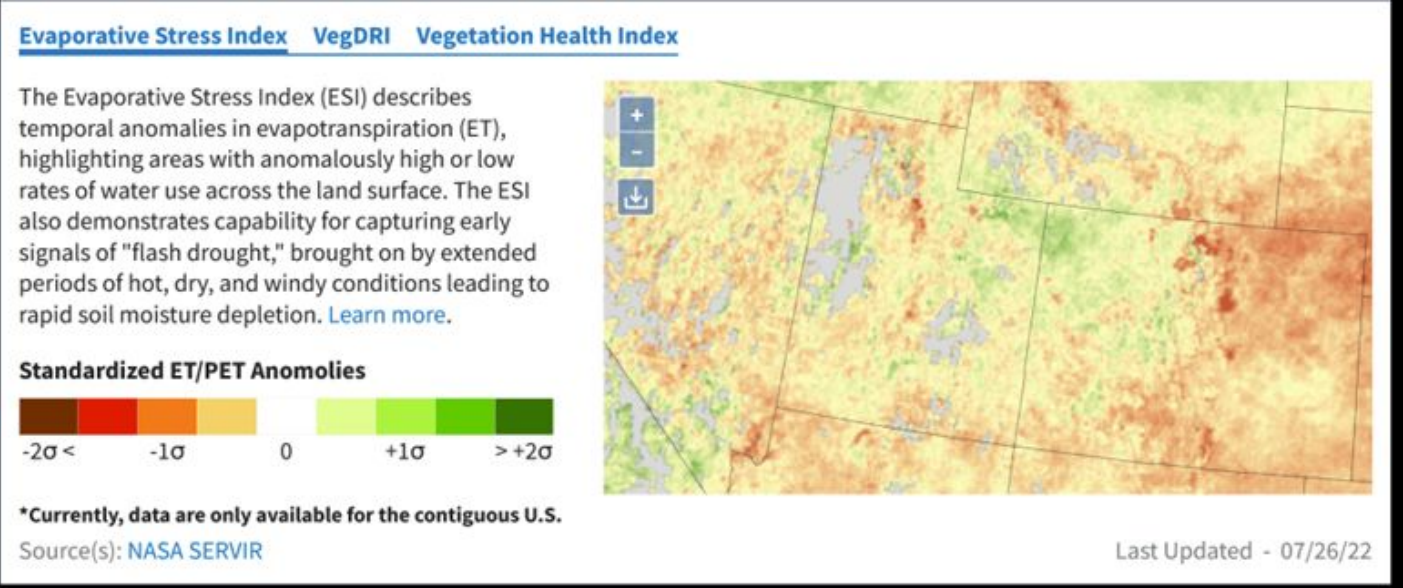
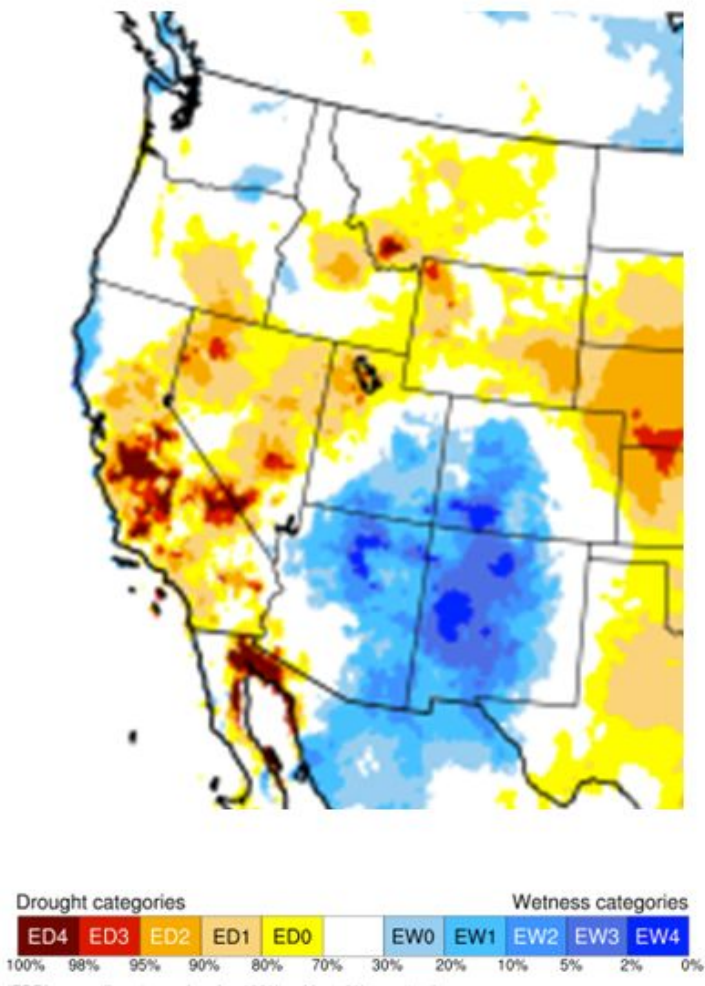
30-day Standardized Precipitation Index: 2022/06/25 - 2022/07/24



6-month Standardized Precipitation Index: 2022/01/25 - 2022/07/24



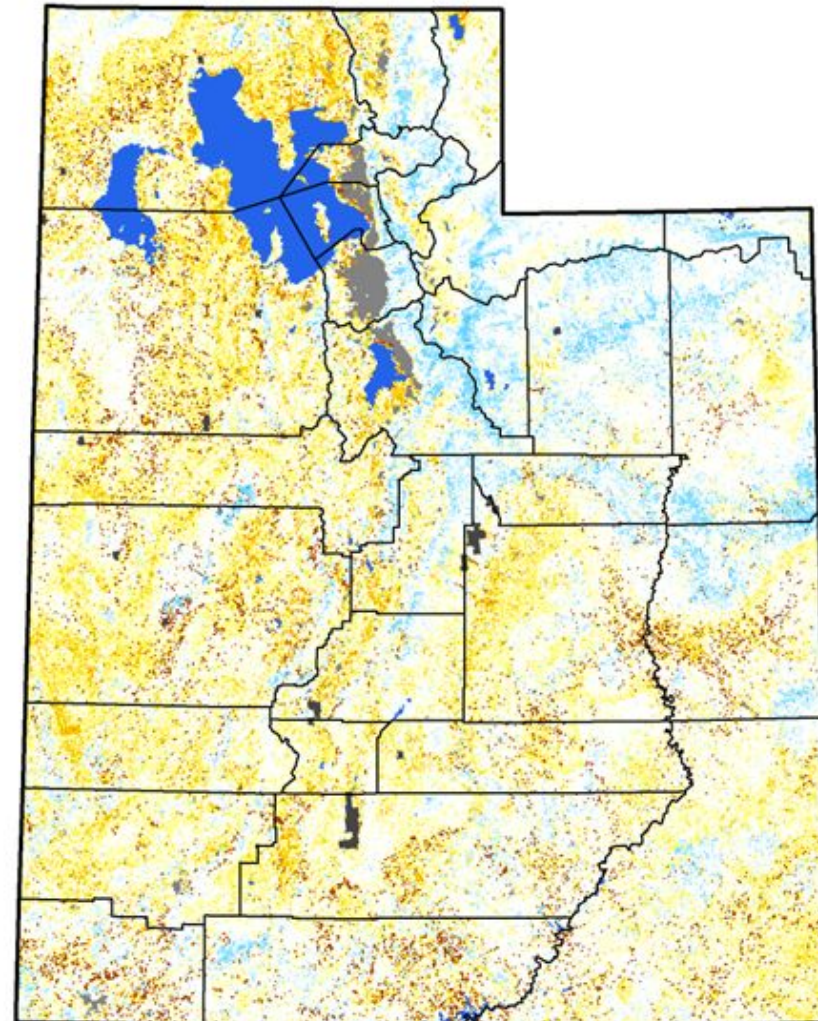
Evaporative Demand (30-day left; 7-day bottom; ESI top right)



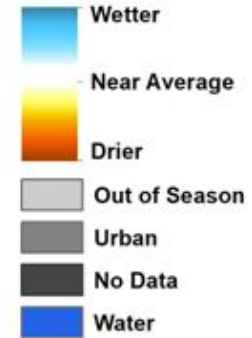
Quick Drought Response Index

Utah

July 24, 2022
(Week 30)



Conditions Relative to
4-Week Historical Average



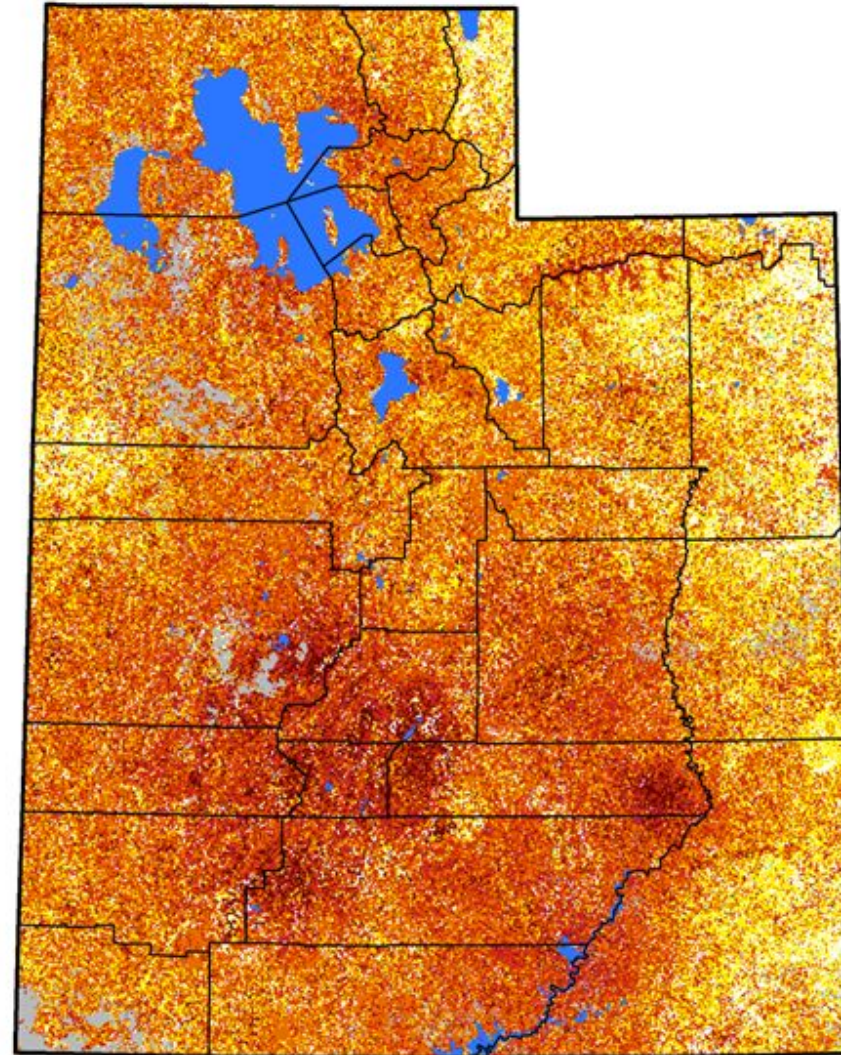
CALMIT
University of Nebraska - Lincoln
Center for Advanced Land Management Information Technologies



Vegetation Drought Response Index

Complete: Utah

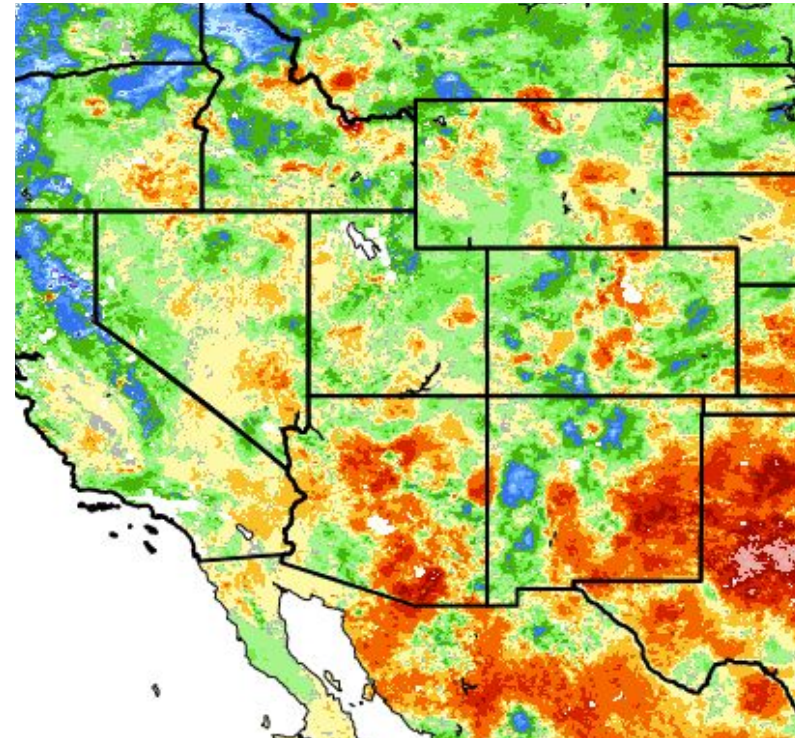
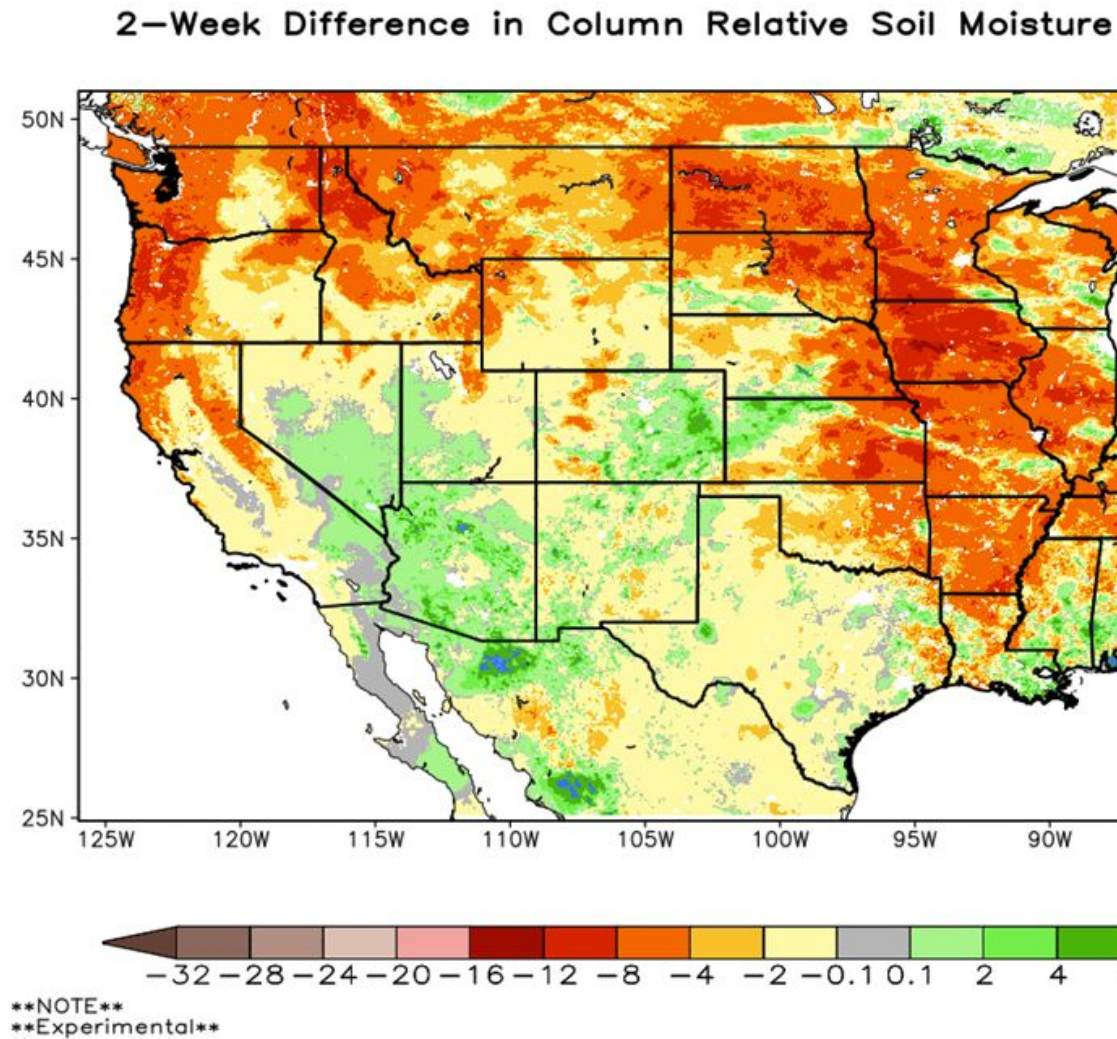
July 24, 2022



Vegetation Condition



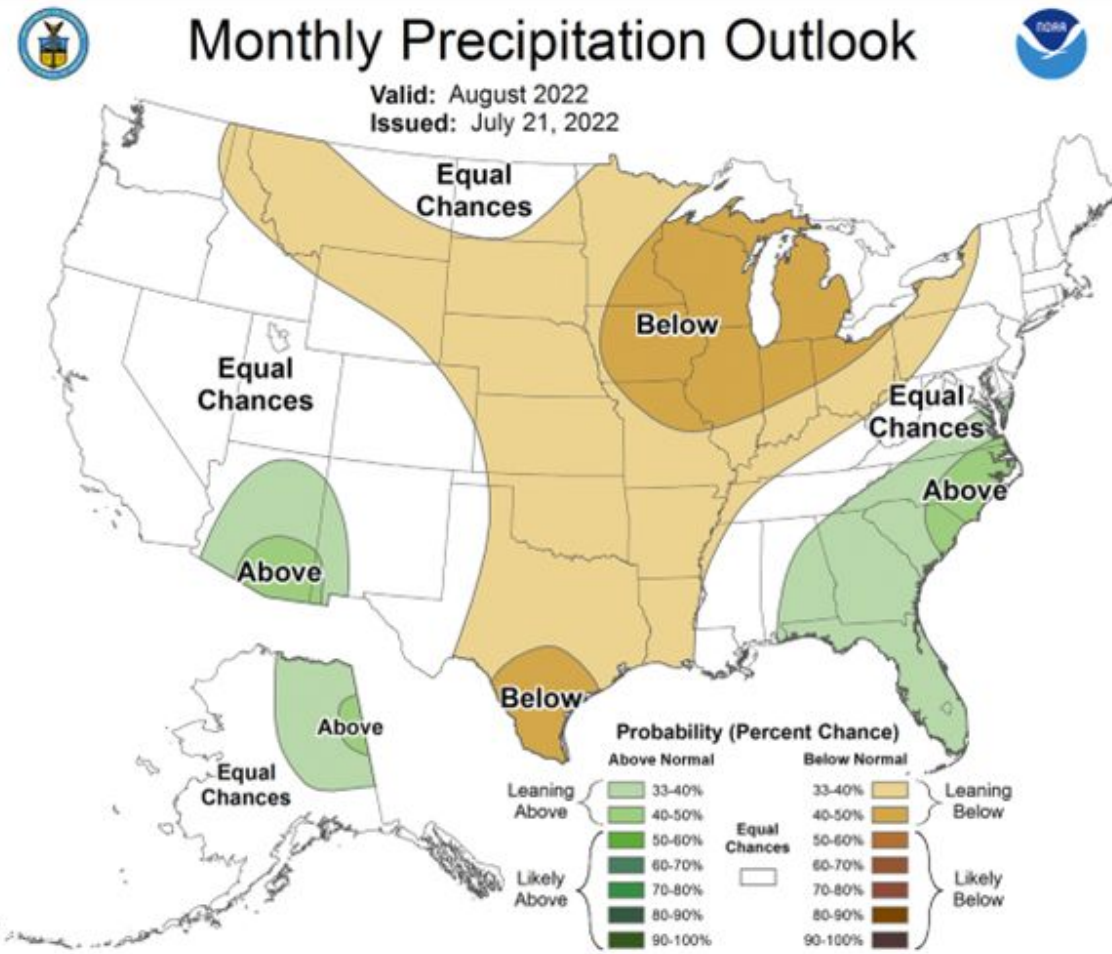
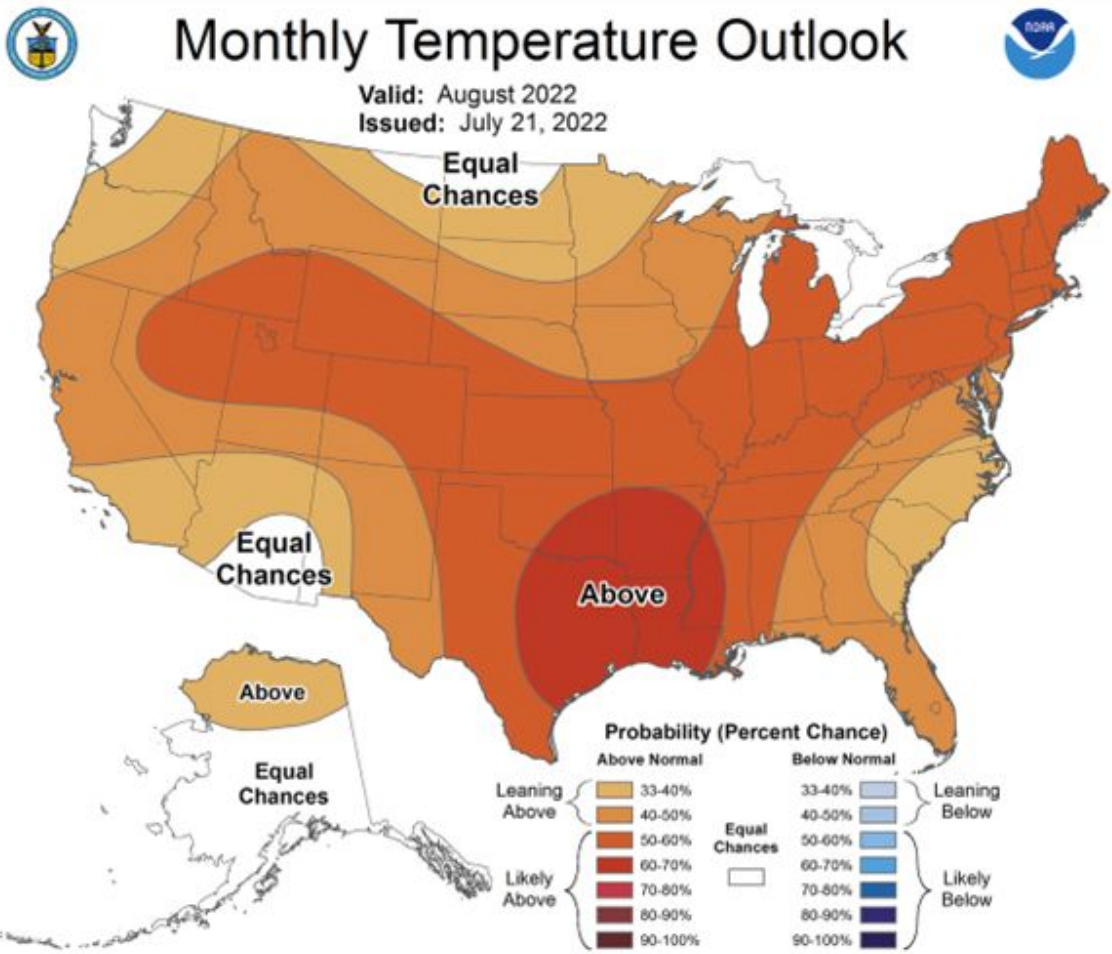
Modeled soil moisture change (2-week & 1-year)



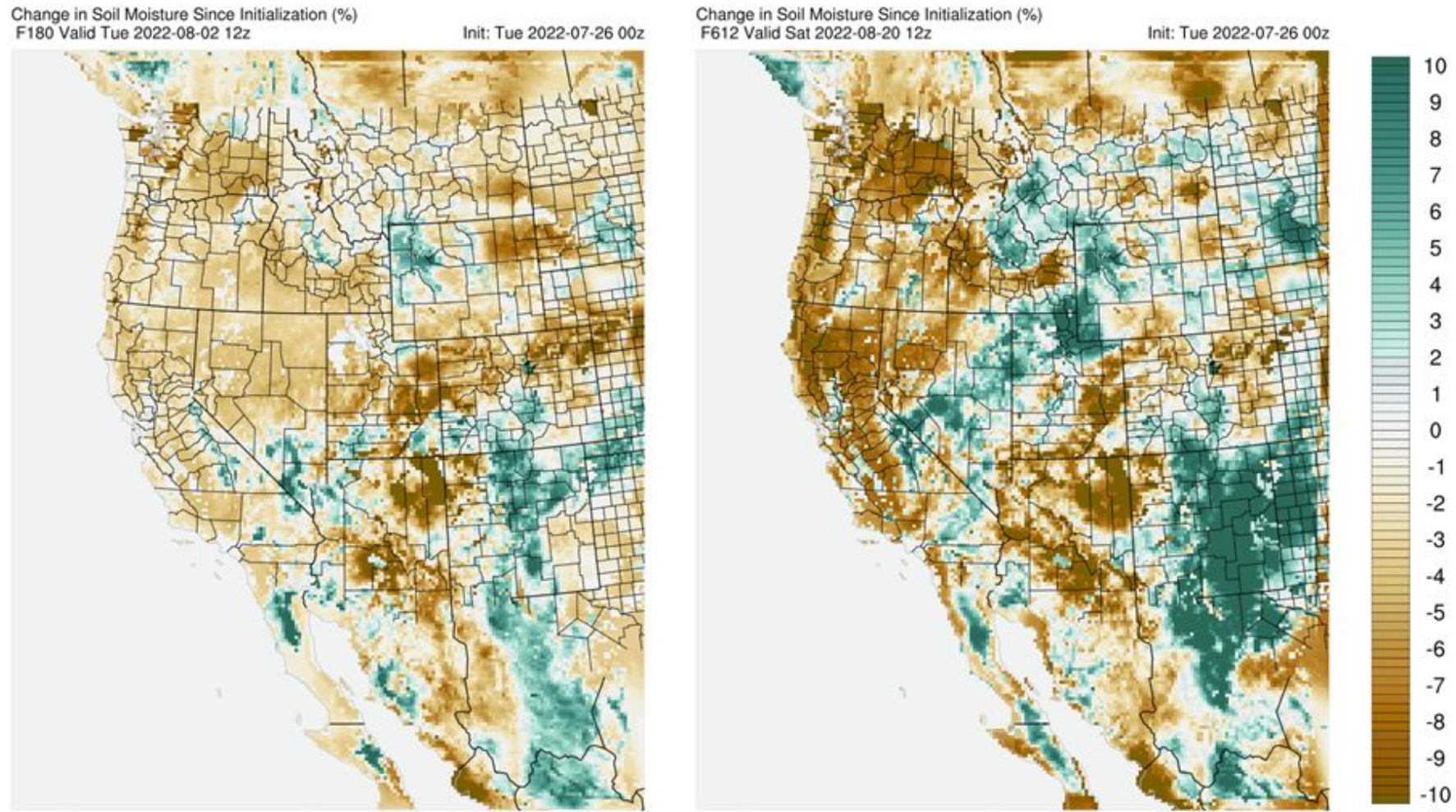
Agency - Utah Climate Center

Presenter - Jon Meyer

CPC 1-month Outlook



Forecast Soil Moisture changes (modeled)

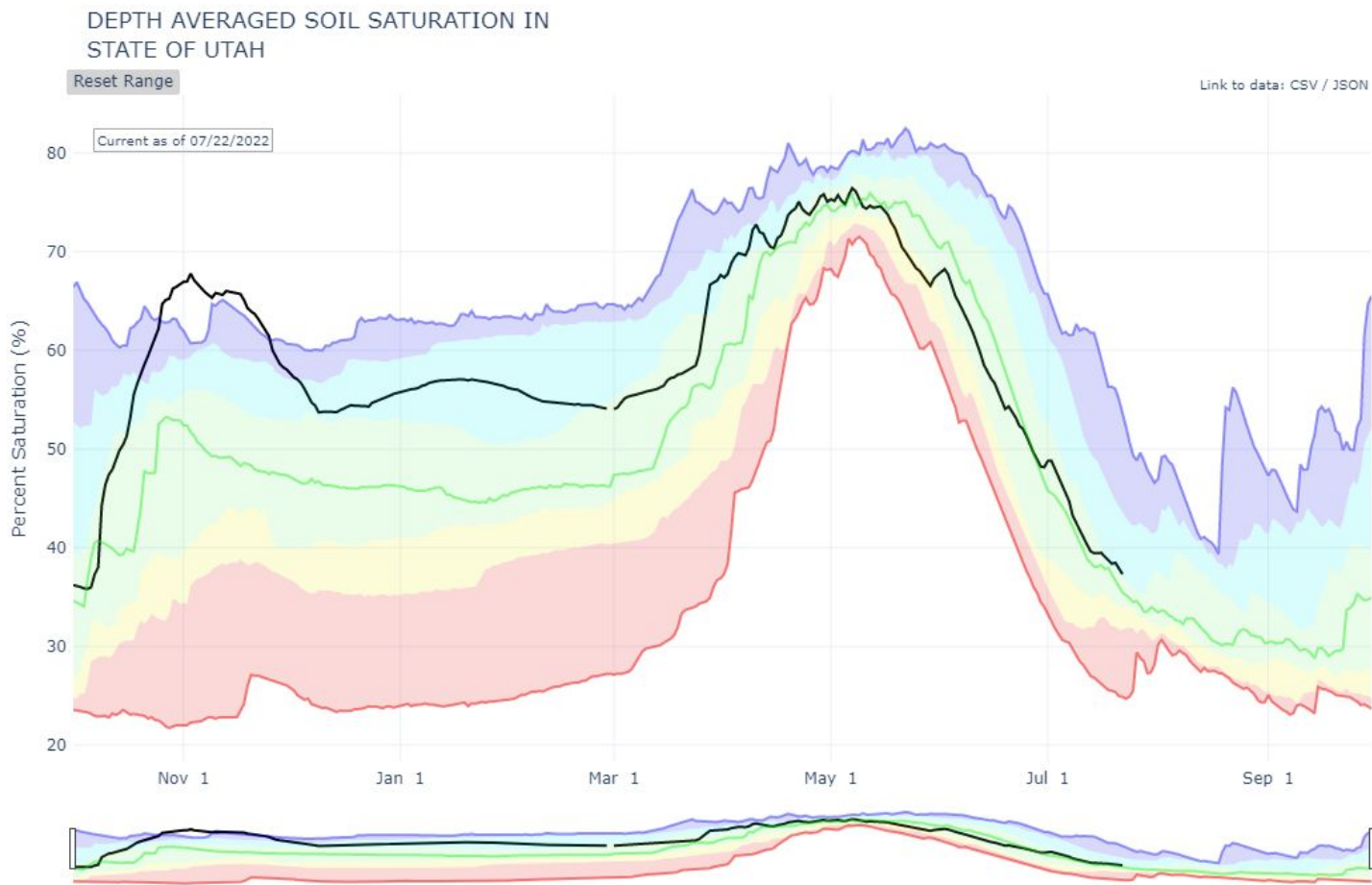


Agency - Utah Climate Center

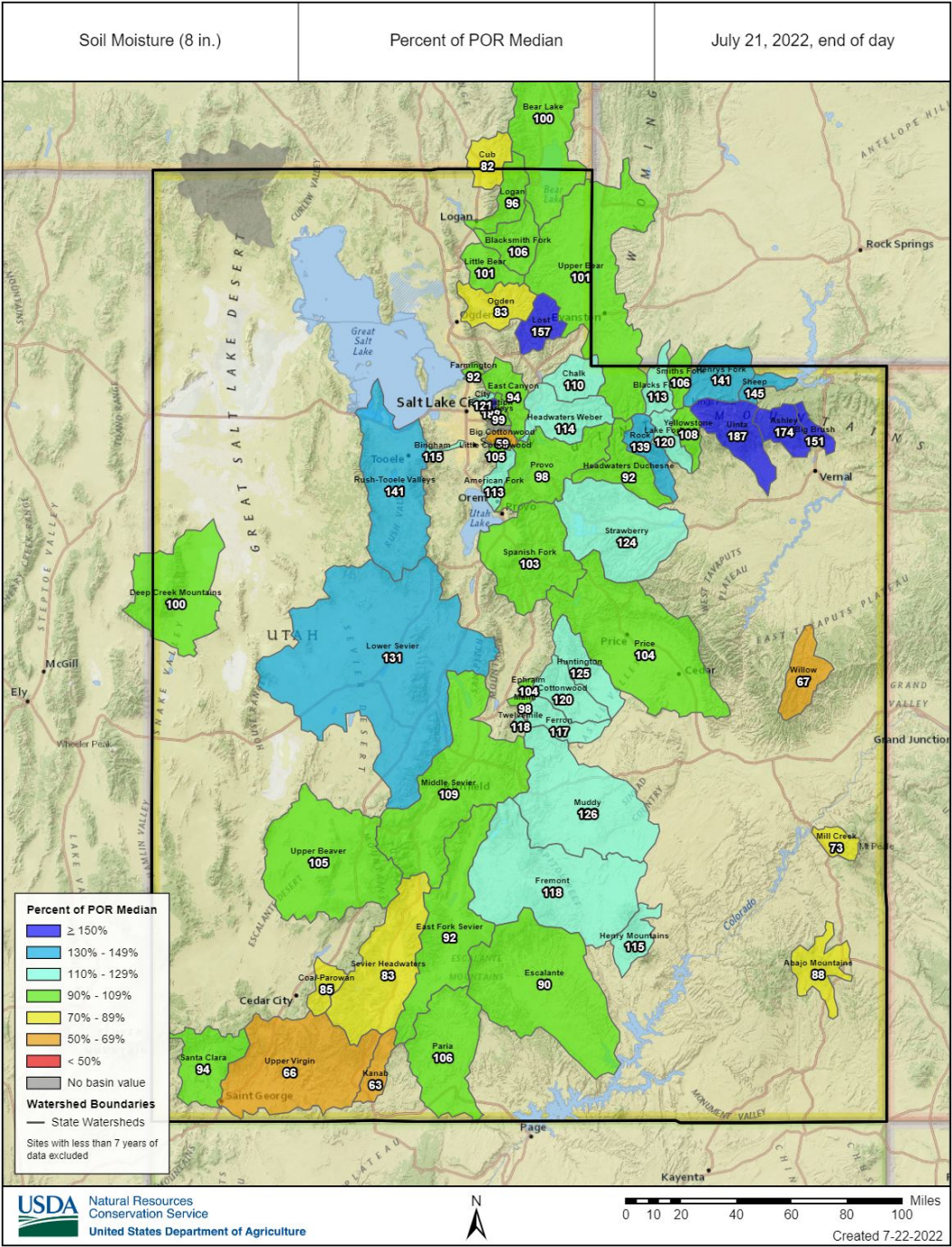
Presenter - Jon Meyer

Soil Moisture

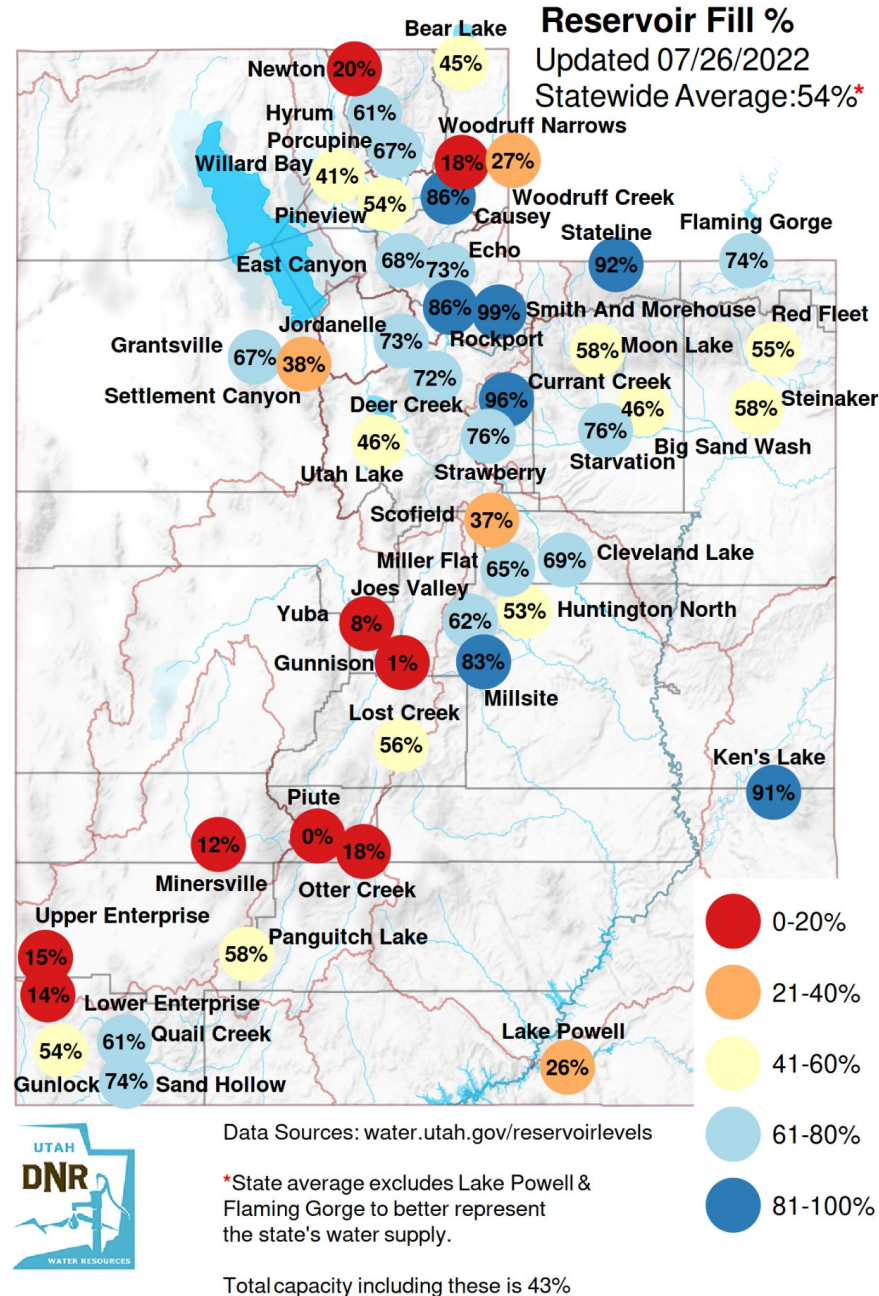
depth-integrated (graph)
8" sensor depth (map)



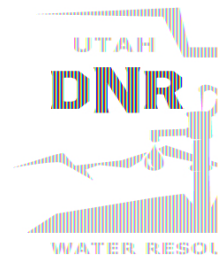
Agency - NRCS Snow Survey
Presenter - slide prepared by Jordan Clayton



Reservoir Levels



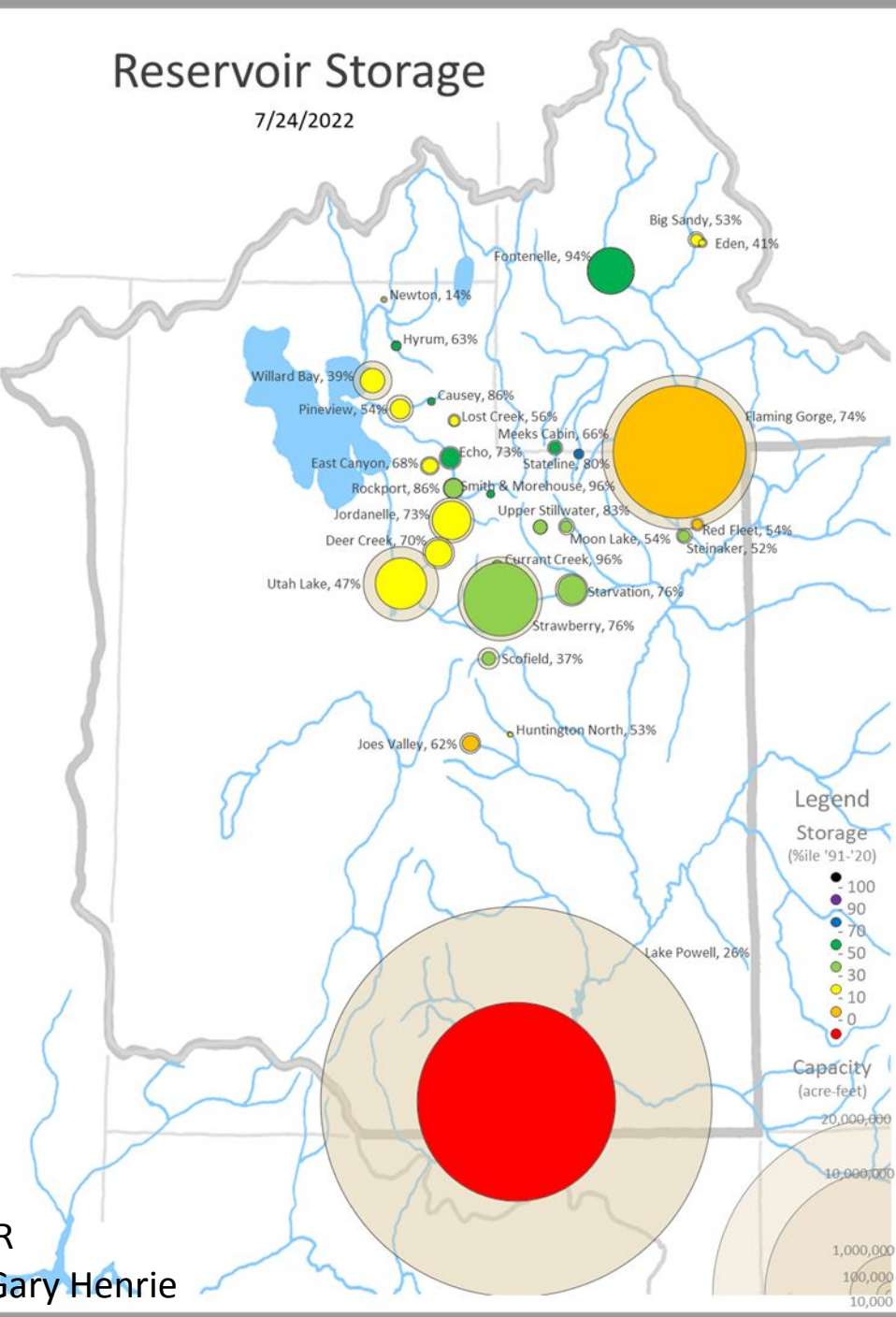
Agency - Division of Water Resources
Presenter - Laura Haskell



Reserv

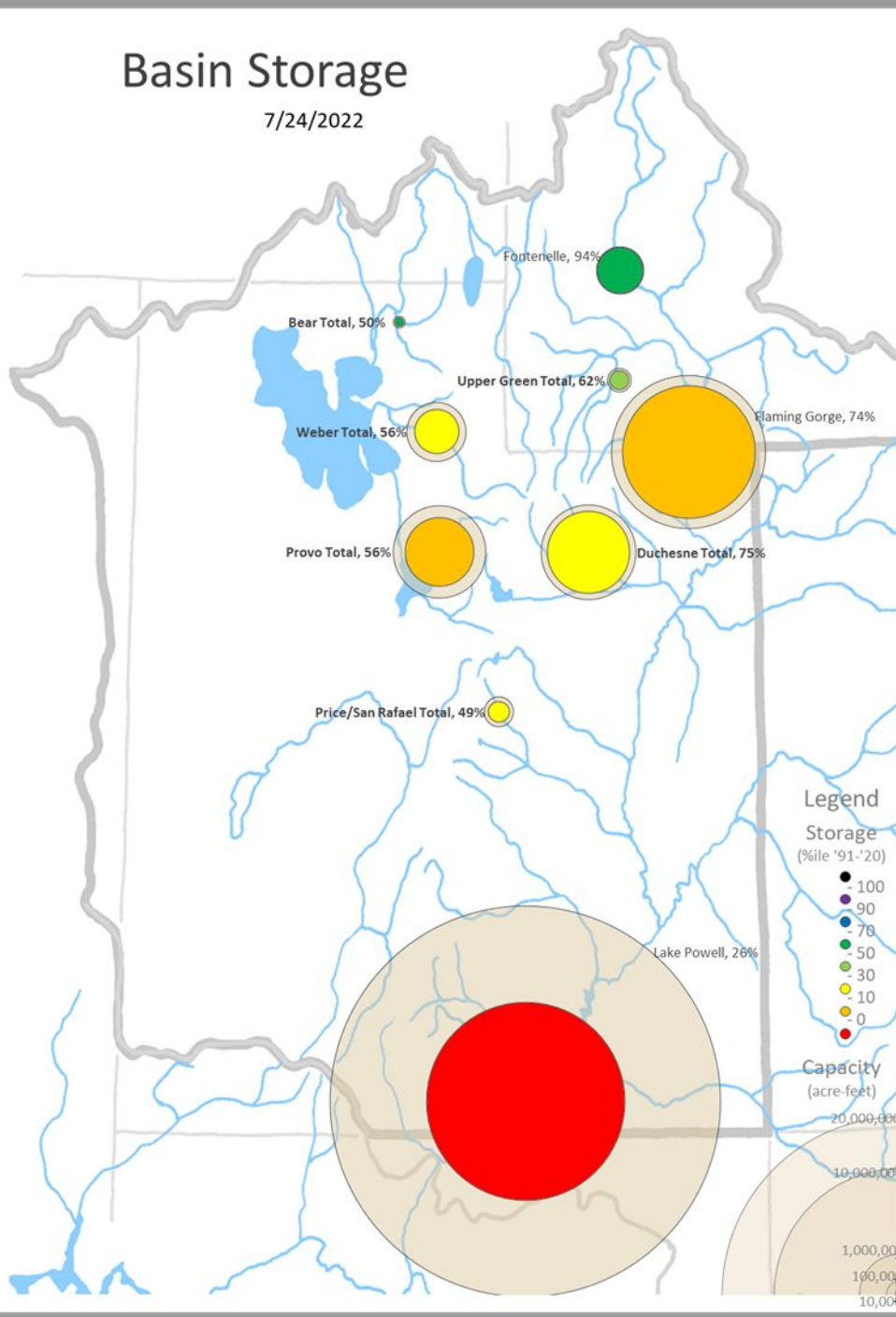
Reservoir Storage

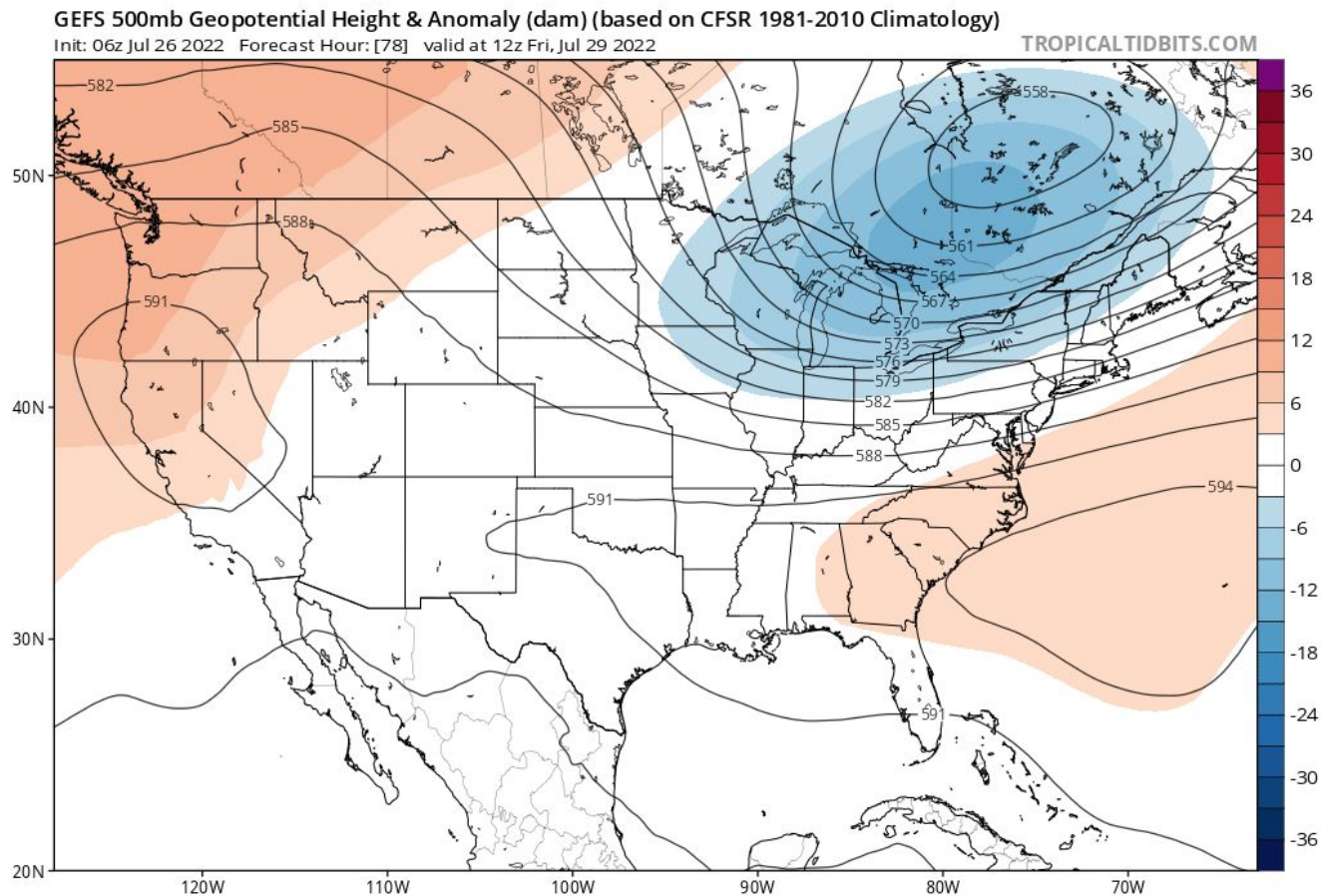
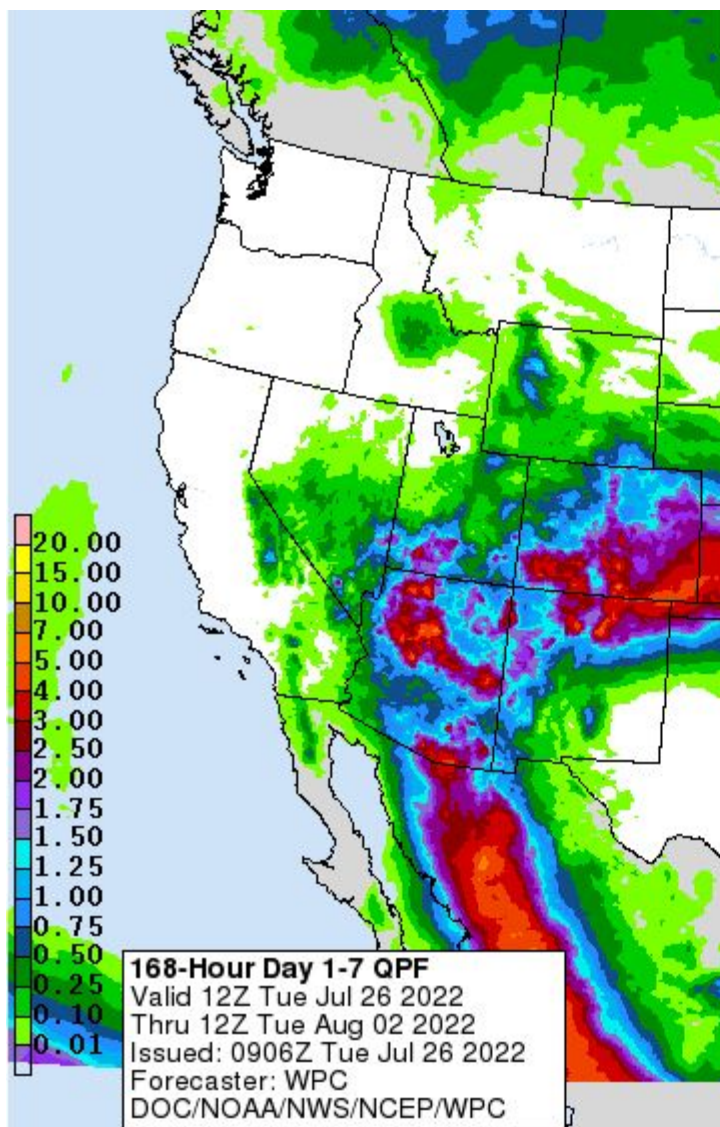
7/24/2022



Basin Storage

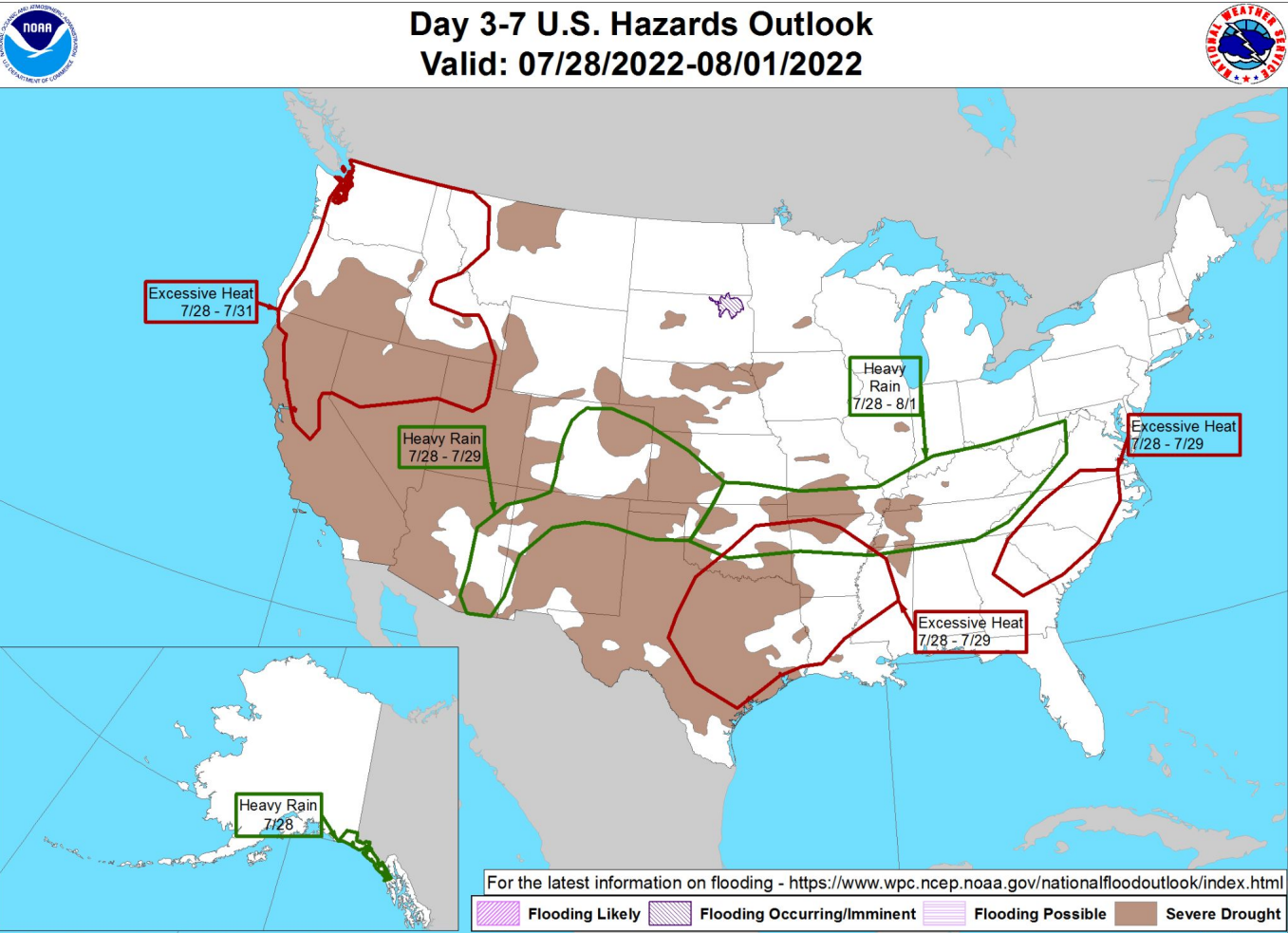
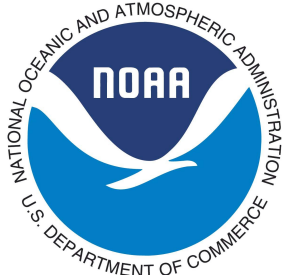
7/24/2022





- Deepest moisture will remain over the southern 1/3rd of the state
- Some drying leading into the weekend as the ridge builds to our west
- Uncertainty in ridge position early next week...most likely it will be shifting east once again.

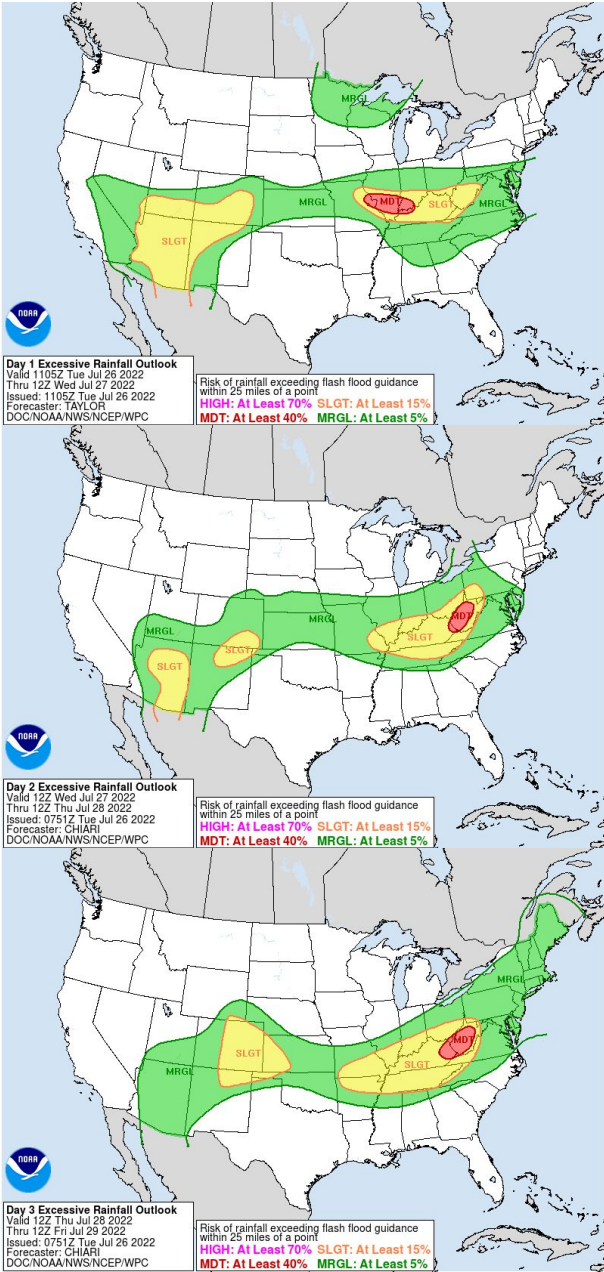
Weather Prediction Center U.S. Day 3-7 Hazards Outlook



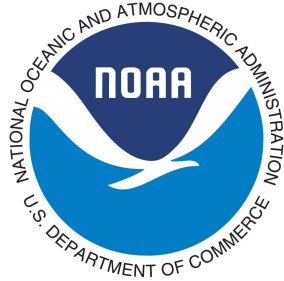
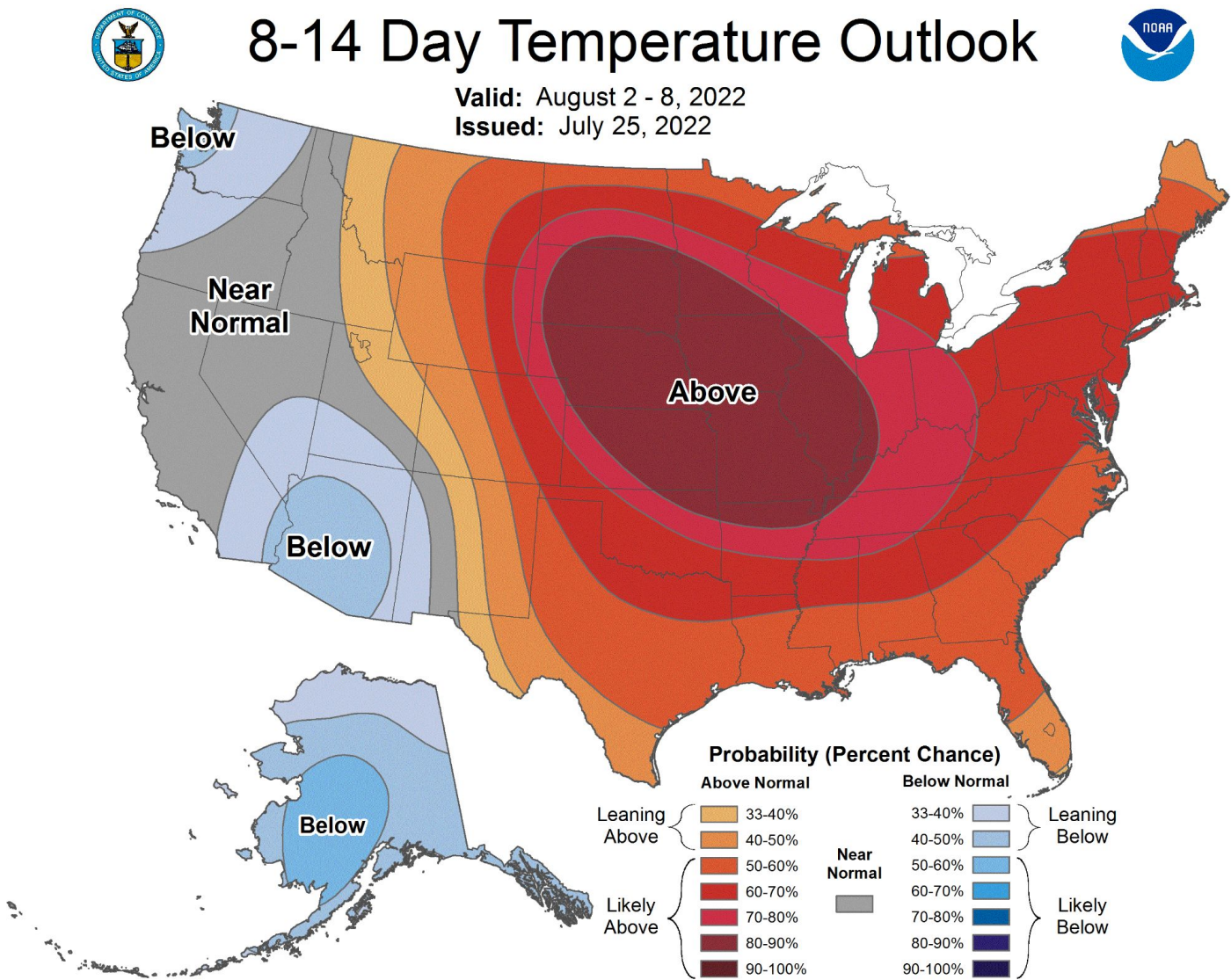
Weather Prediction Center
Made: 07/25/2022 3PM EDT

Follow us: www.wpc.ncep.noaa.gov

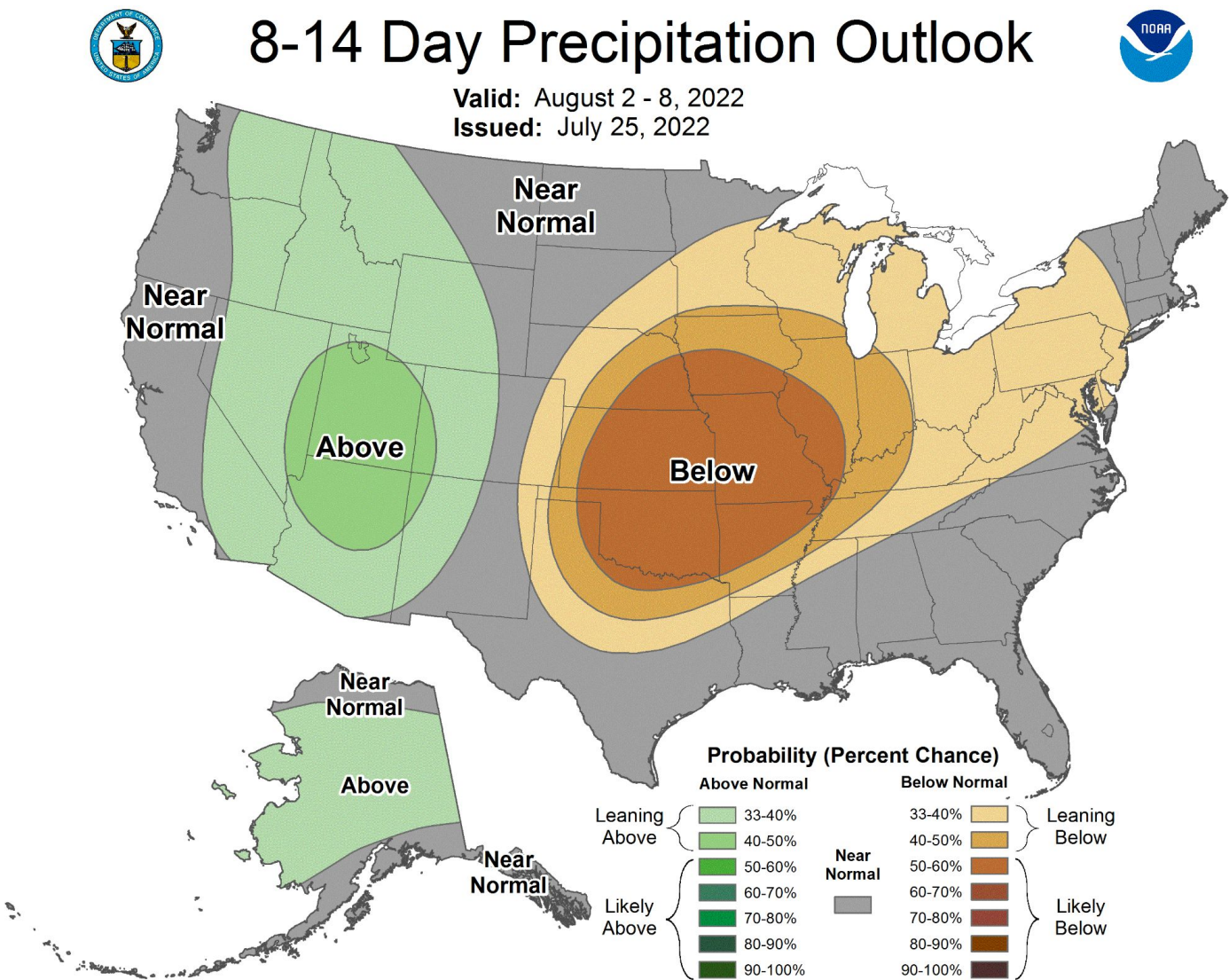
Agency - National Weather Service Weather Forecast Office
Presenter - Glen Merrill



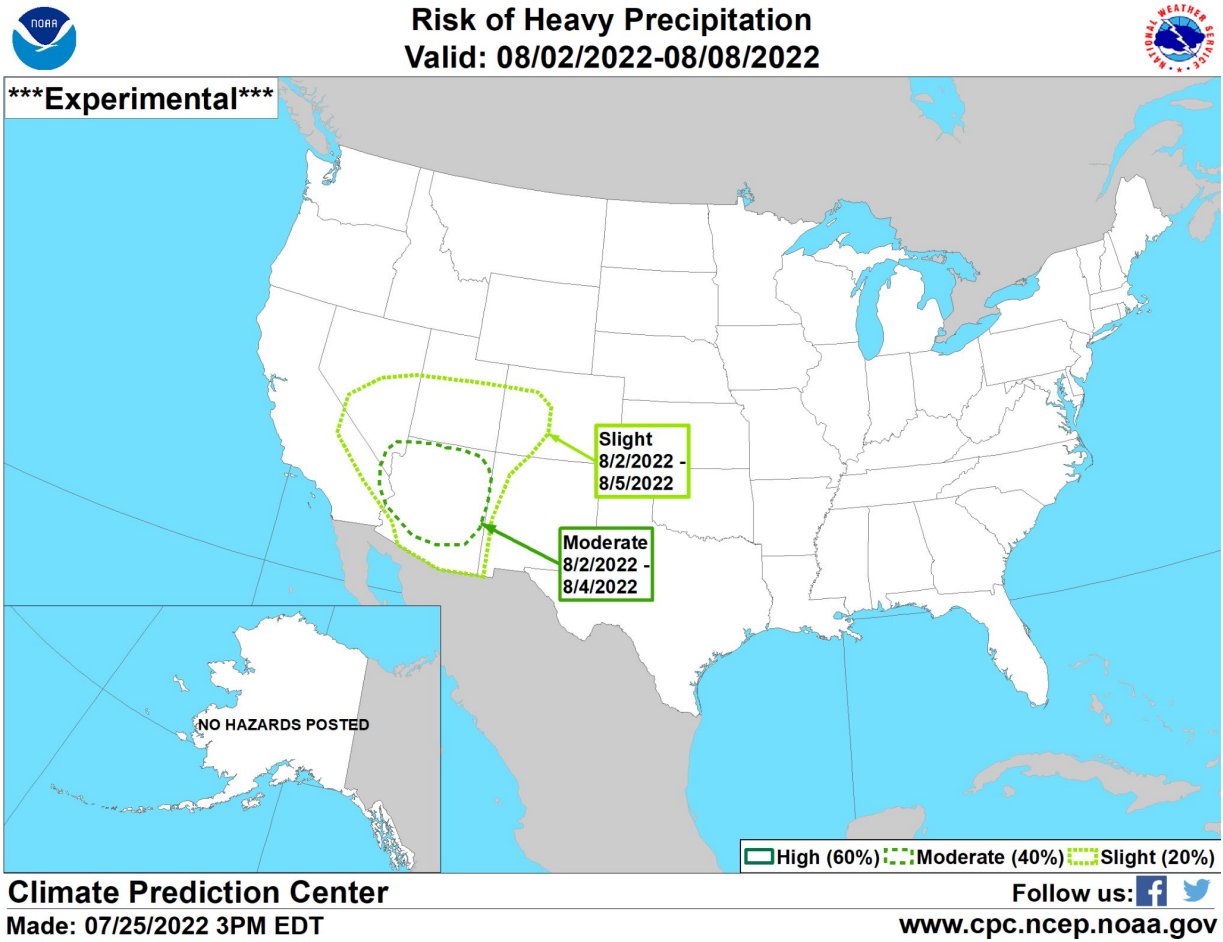
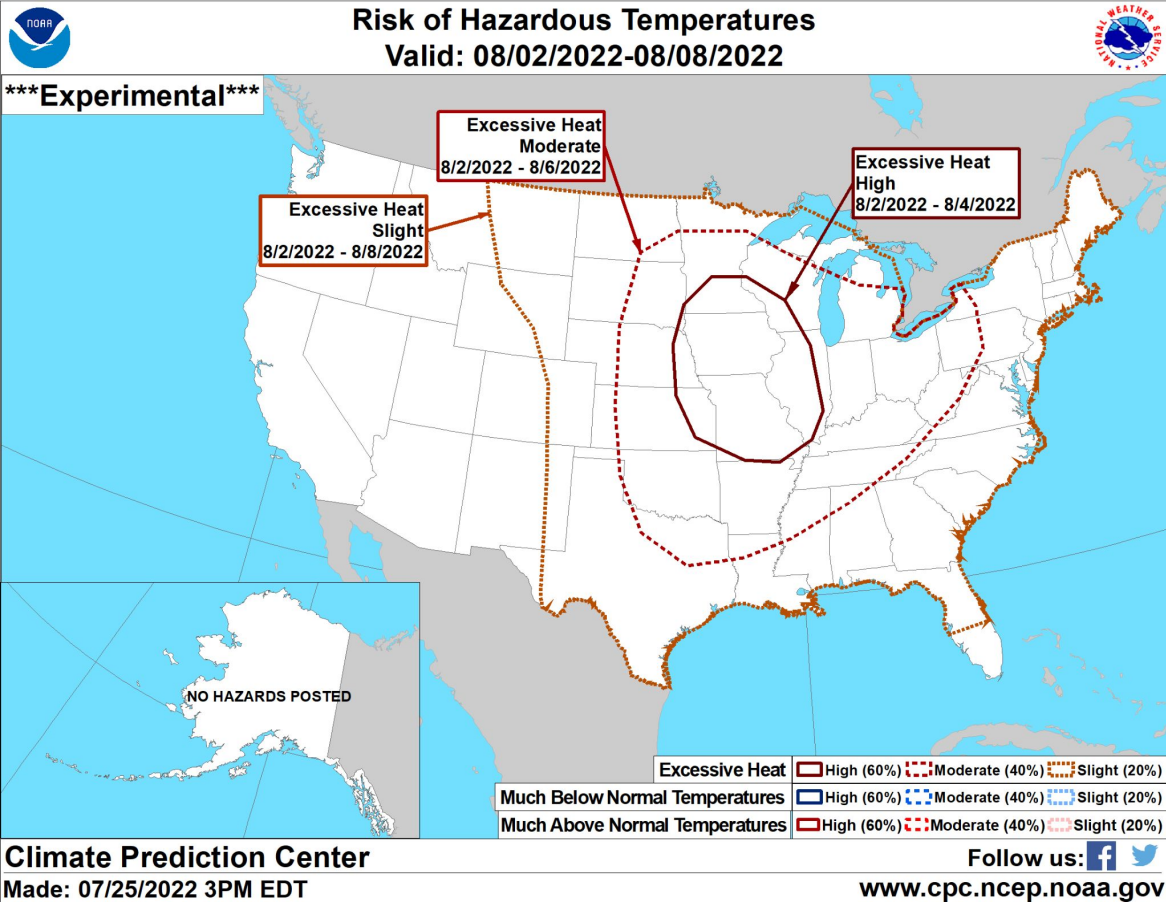
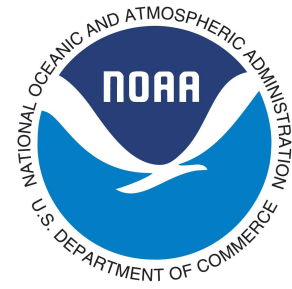
Climate Prediction Center 8 to 14 Day Outlooks - Temperature

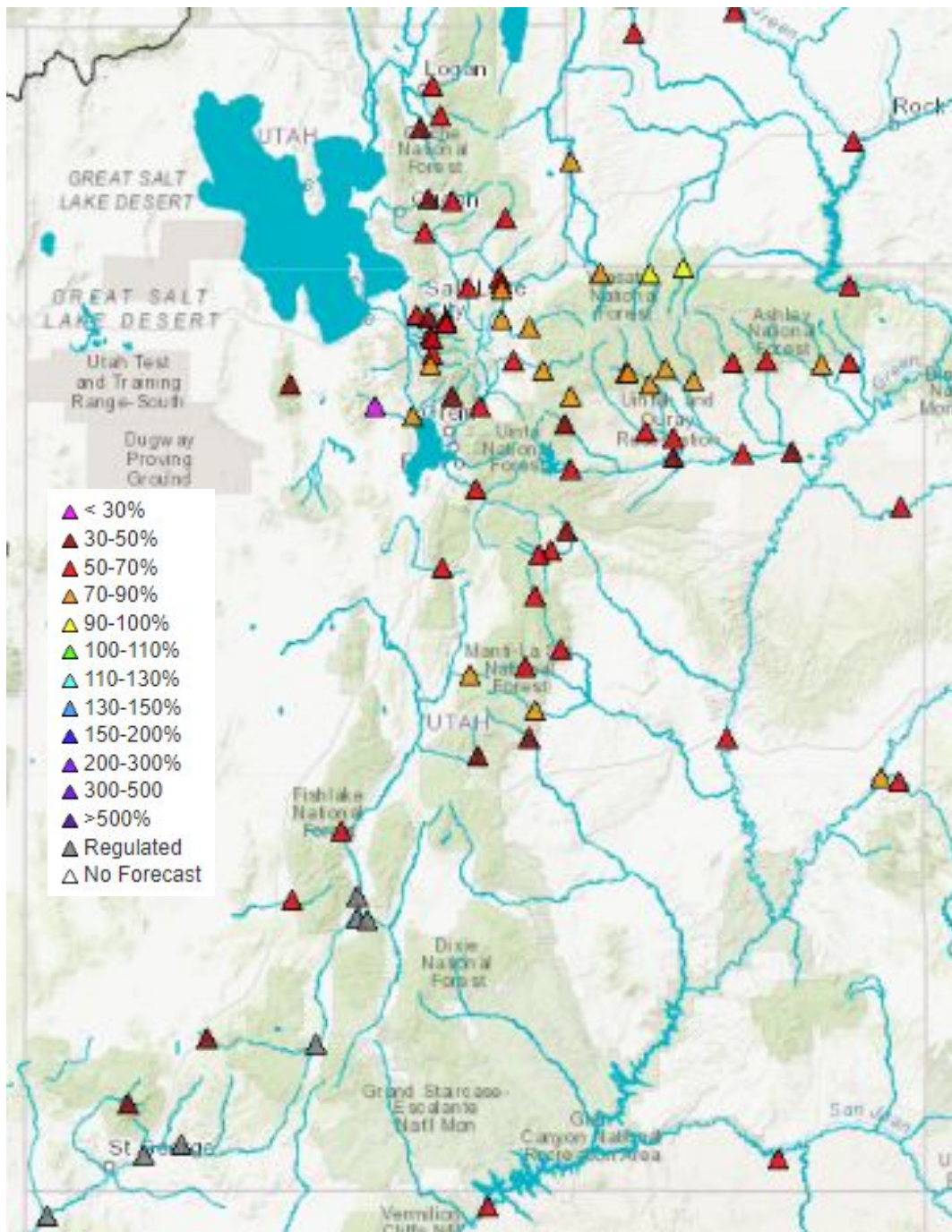
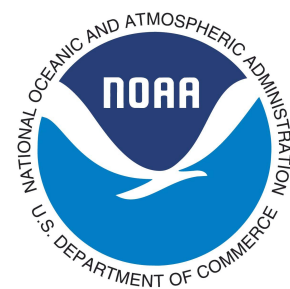


Climate Prediction Center 8 to 14 Day Outlooks - Precipitation



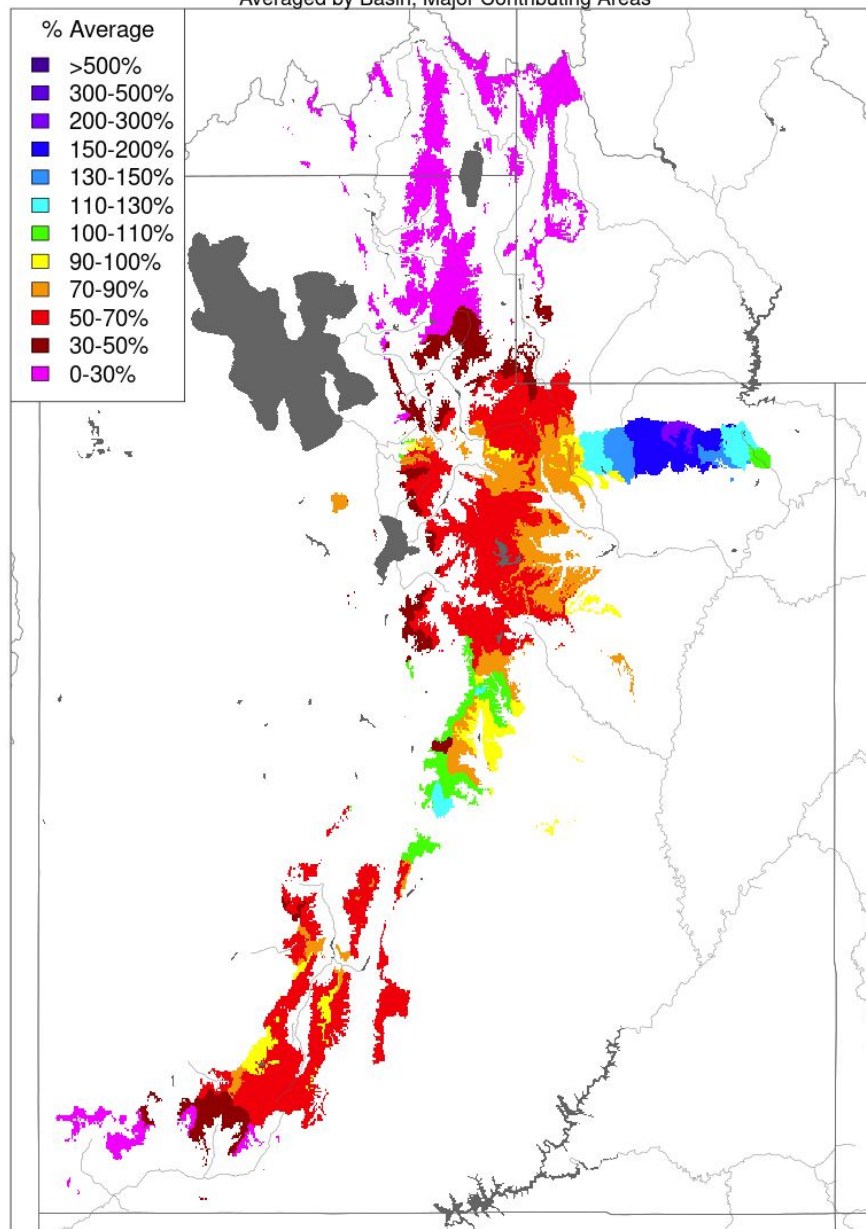
Climate Prediction Center U.S. Week-2 Hazards Outlook





Month to Date Precipitation - July 25 2022

Averaged by Basin, Major Contributing Areas



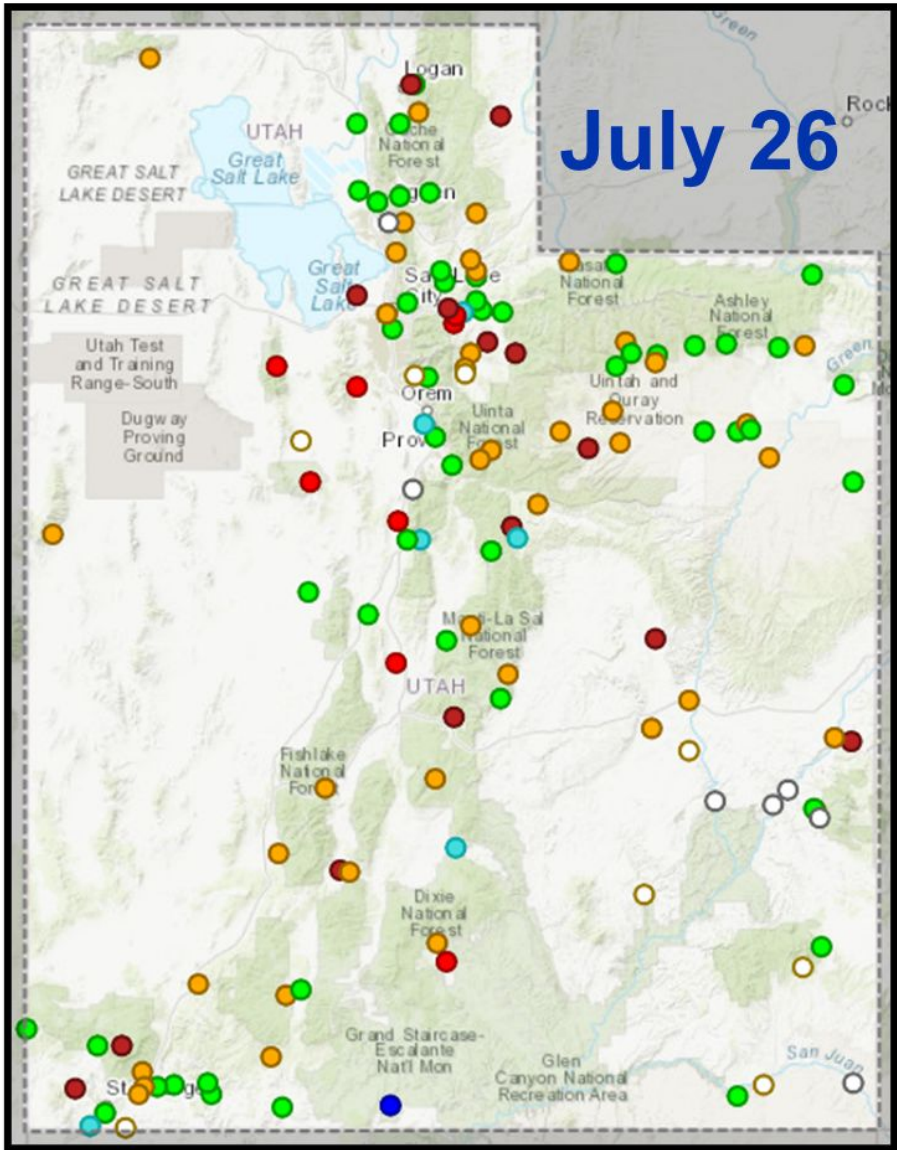
Prepared by NOAA, Colorado Basin River Forecast Center
Salt Lake City, Utah, www.cbrfc.noaa.gov

As we near the end of the April through July runoff period, seasonal runoff volumes are pretty much set; we'll have some provisional observed values for next time. Regardless, dry, below average conditions are consistent throughout Utah.

Month to date precipitation has been very dry outside of the Six Creeks River Basin, which has been above average. This has very little impact to water supply conditions.

Pat Kormos - CBRFC

Current Streamflow Conditions



July 26

National Water Dashboard

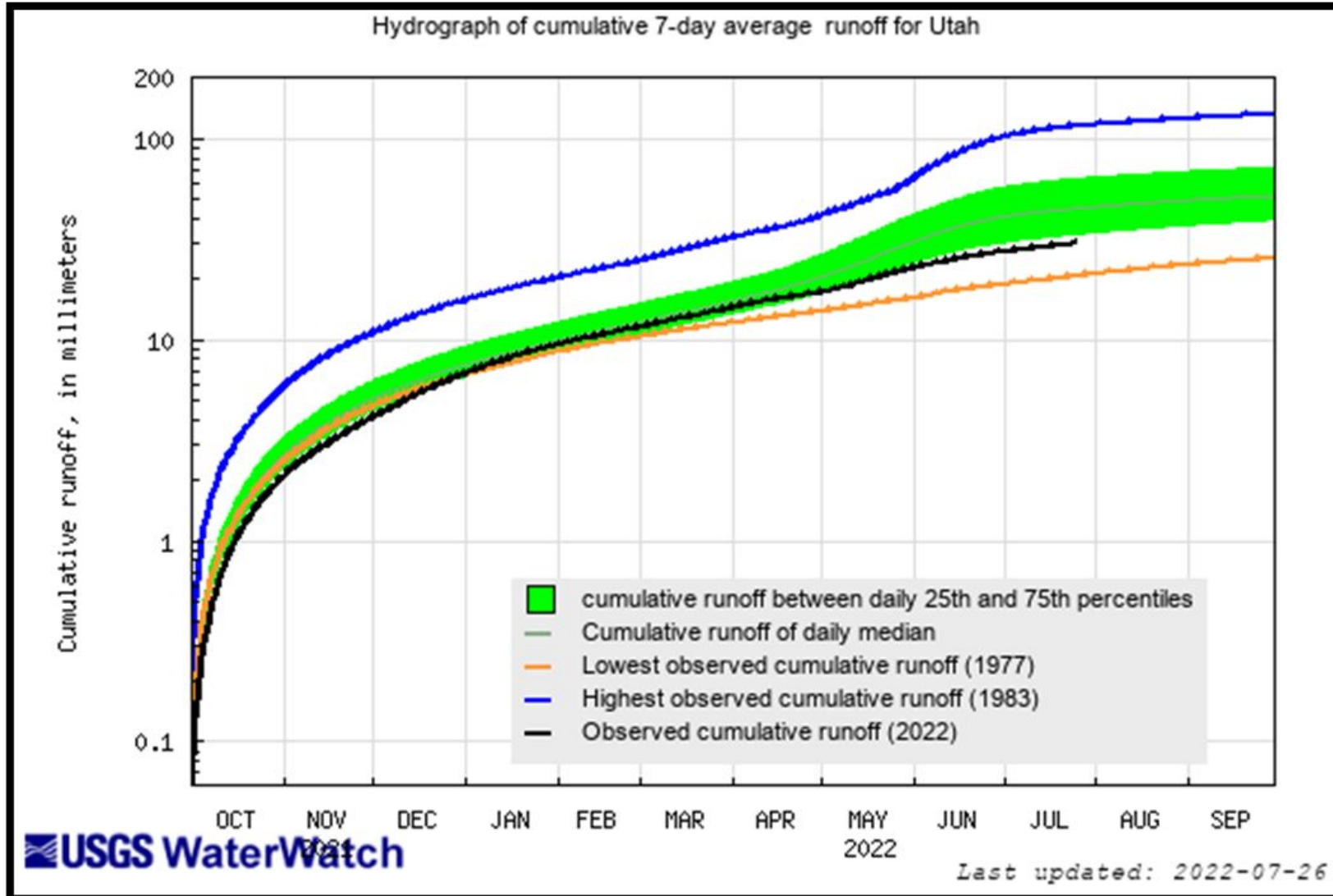
July 11 July 26

Day-of-Year Status	% Gages	% Gages
All-time high for this day-of-year	0.0%	0.0%
Much above normal for this day-of-year	0.0%	0.7%
Above normal for this day-of-year	1.5%	4.4%
Normal for this day-of-year	43.1%	38.0%
Below normal for this day-of-year	27.7%	29.9%
Much below normal for this day-of-year	12.4%	10.2%
All-time low for this day-of-year	3.6%	5.8%
Not ranked - insufficient record	7.3%	7.3%
Not ranked - stream not flowing	3.6%	3.6%

Streamflow: Status	
● Above flood stage	
● All-time high for this day	100 th percentile (maximum)
● Much above normal	>90 th percentile
● Above normal	76 th – 90 th percentile
● Normal	25 th – 75 th percentile
● Below normal	10 th – 24 th percentile
● Much below normal	<10 th percentile
● All-time low for this day	0 th percentile (minimum)
● Not flowing	
● Not ranked	
● Measurement flag	
● Recent measurement unavailable	

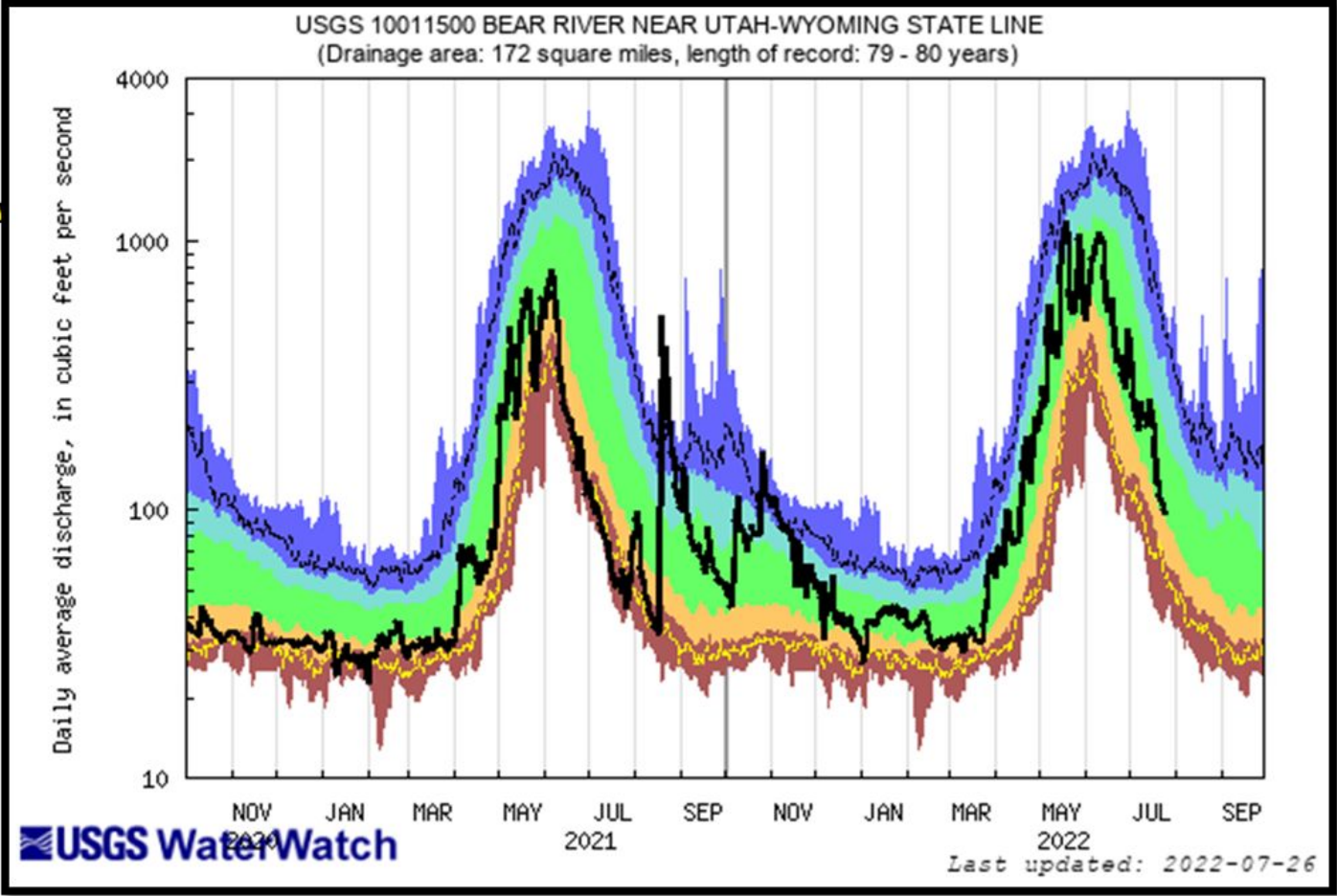
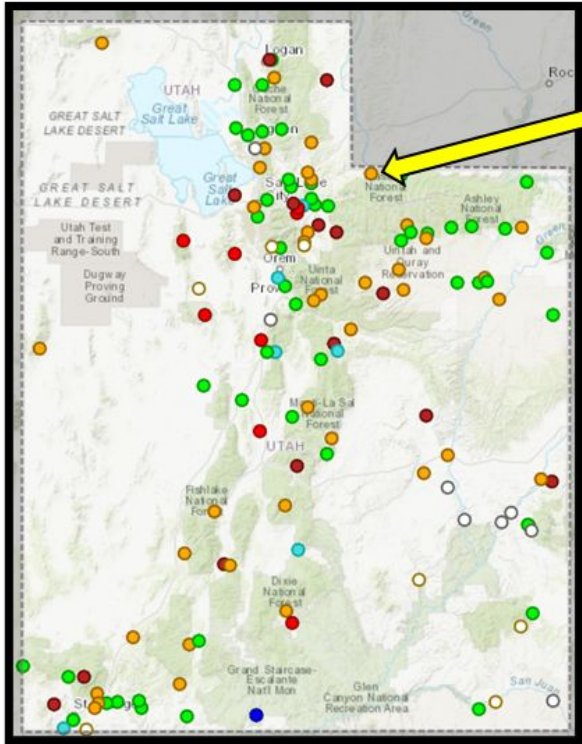
Agency - USGS Utah WSC
Presenter - Ryan Rowland

Area Based Cumulative Runoff for Utah



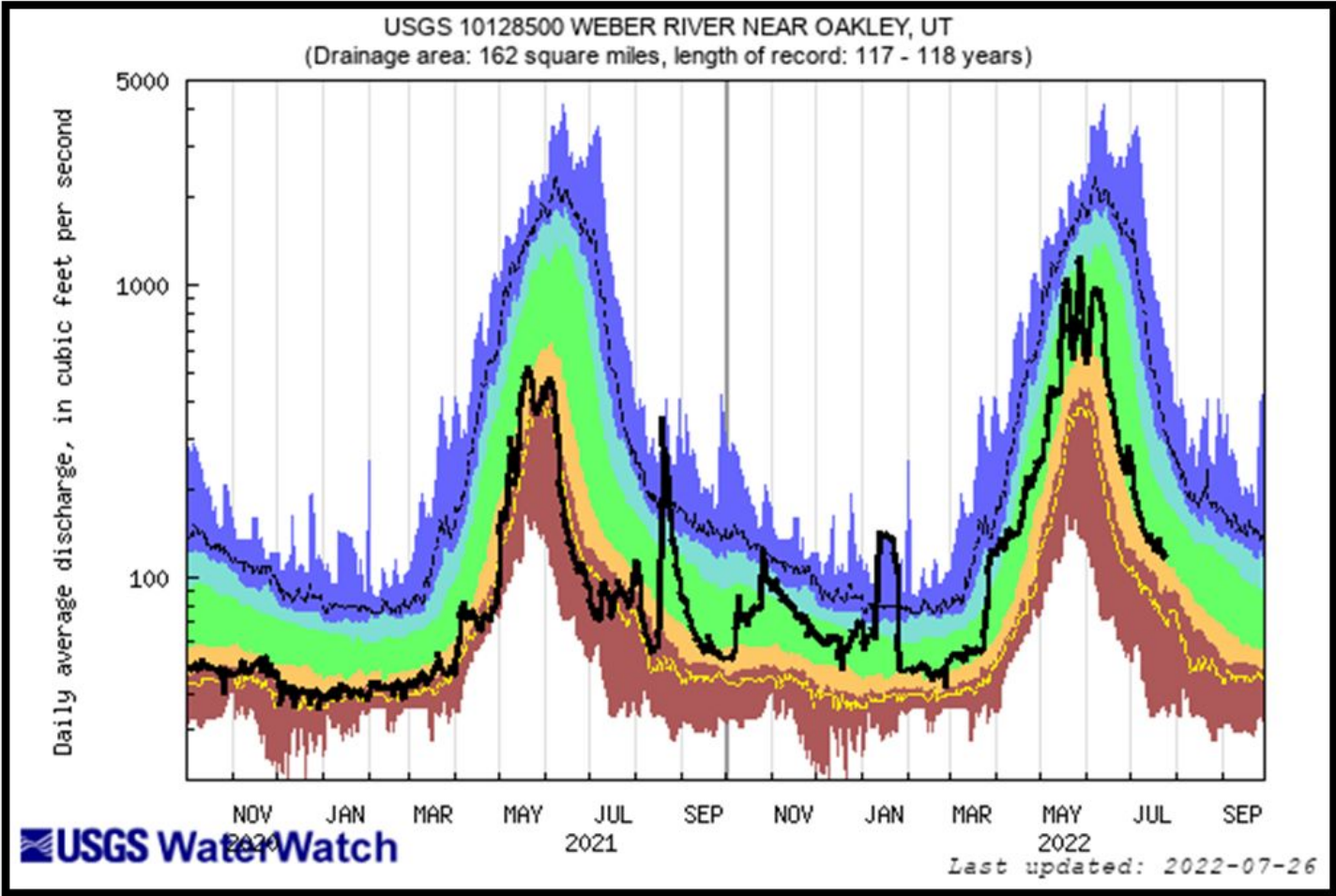
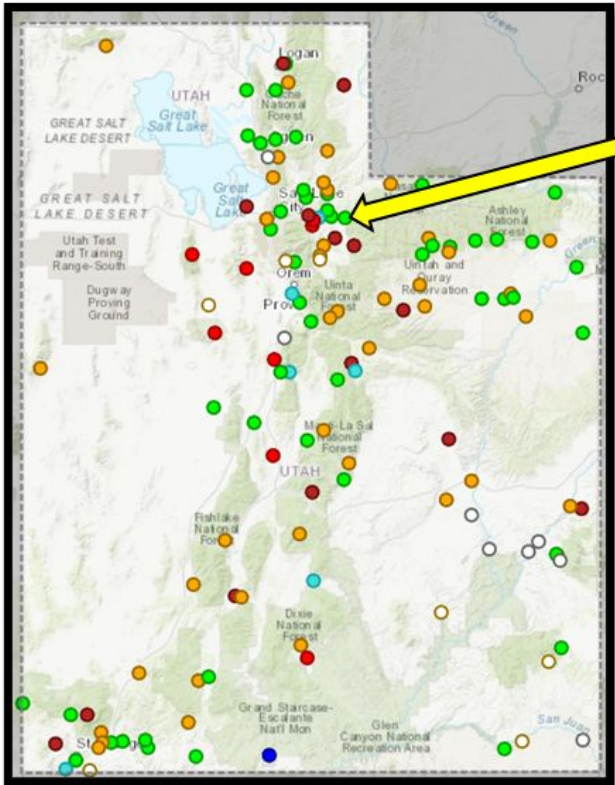
□ **Area based
runoff
computed
from mixed
regulated
and
unregulated
streamflows**

Streamflow at Selected Gages



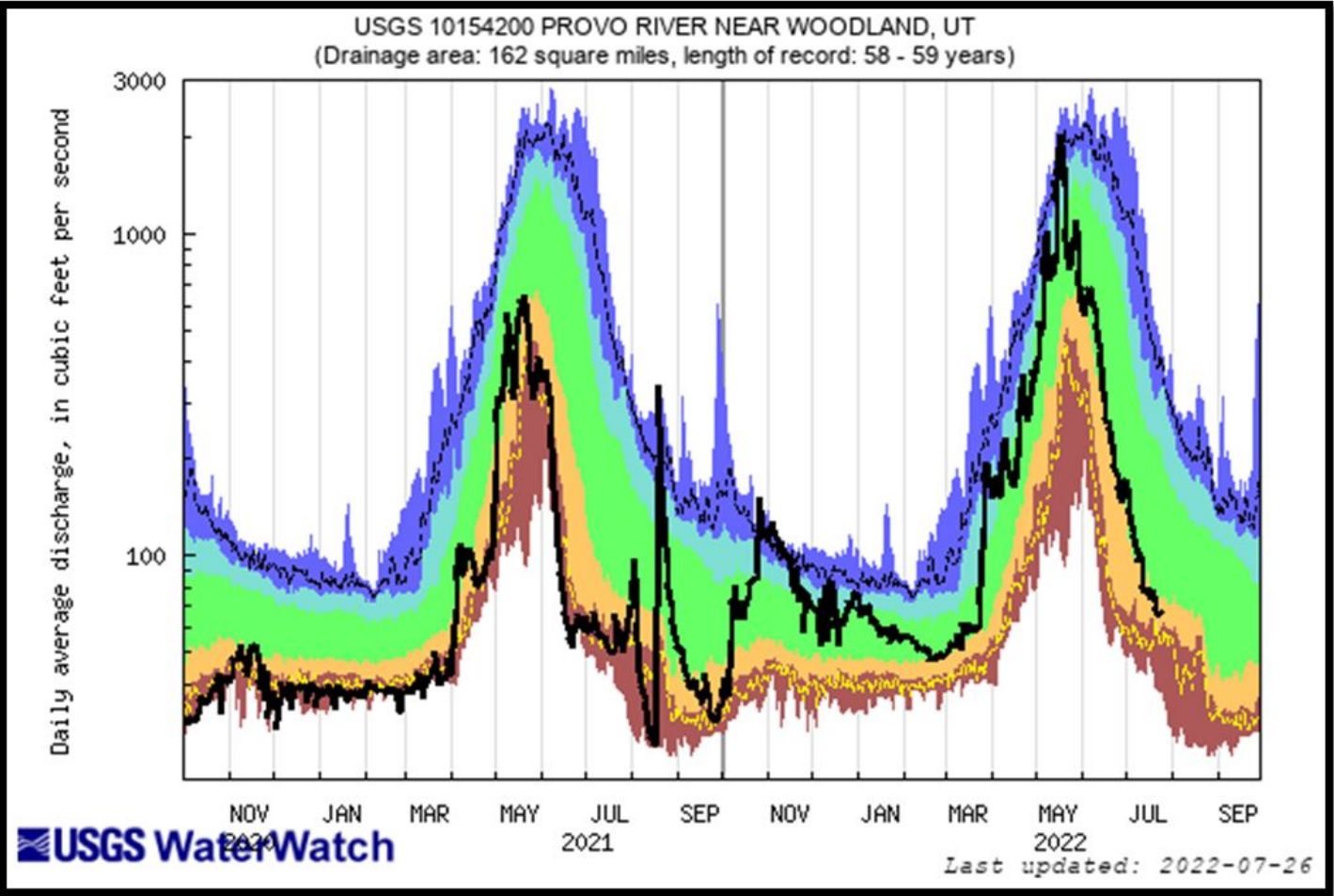
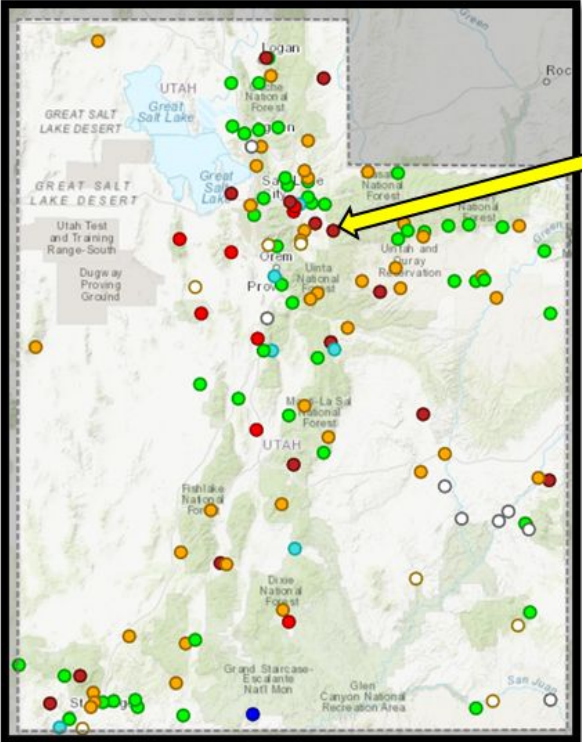
Explanation - Percentile classes						
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile-highest
Much below Normal	Below normal	Normal	Above normal	Much above normal	Flow	

Streamflow at Selected Gages



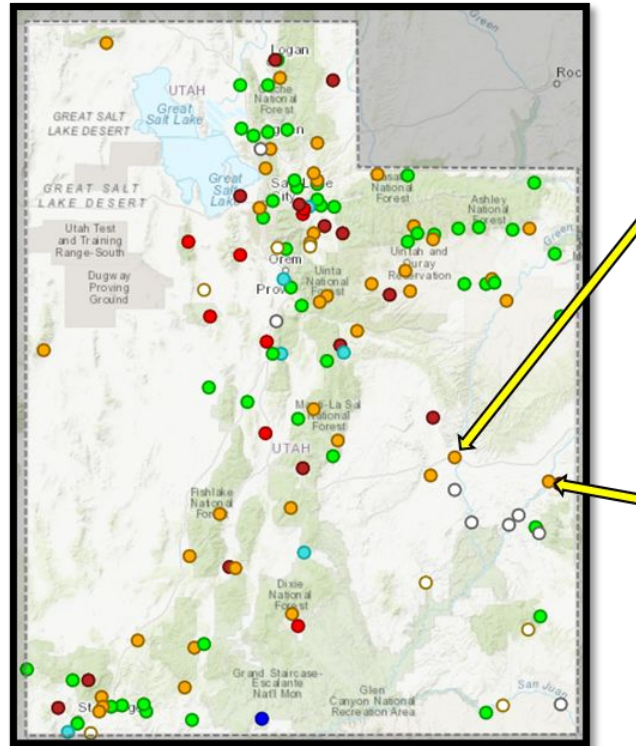
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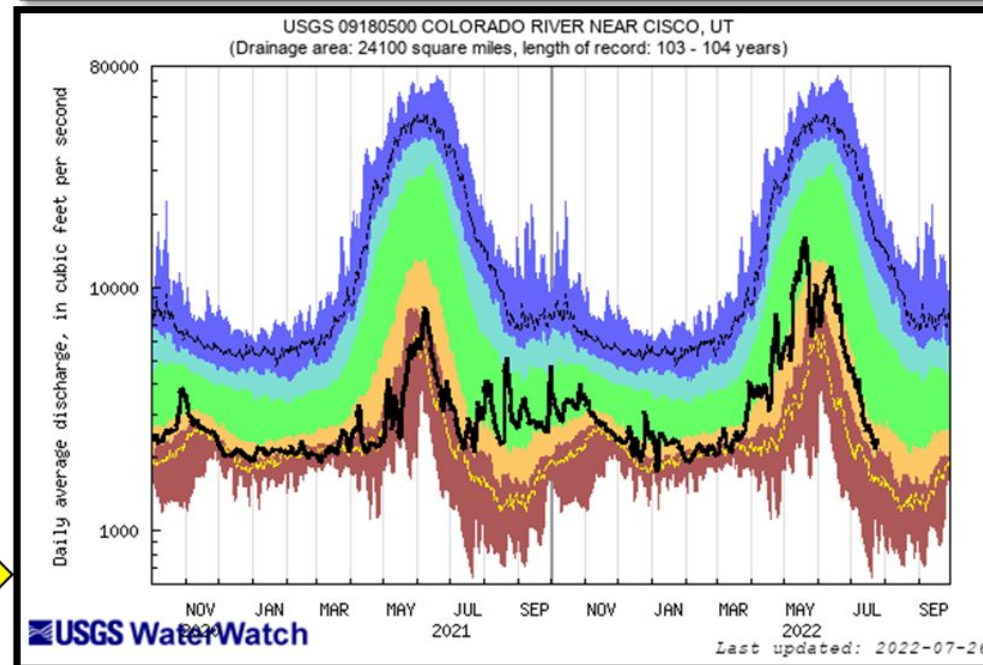
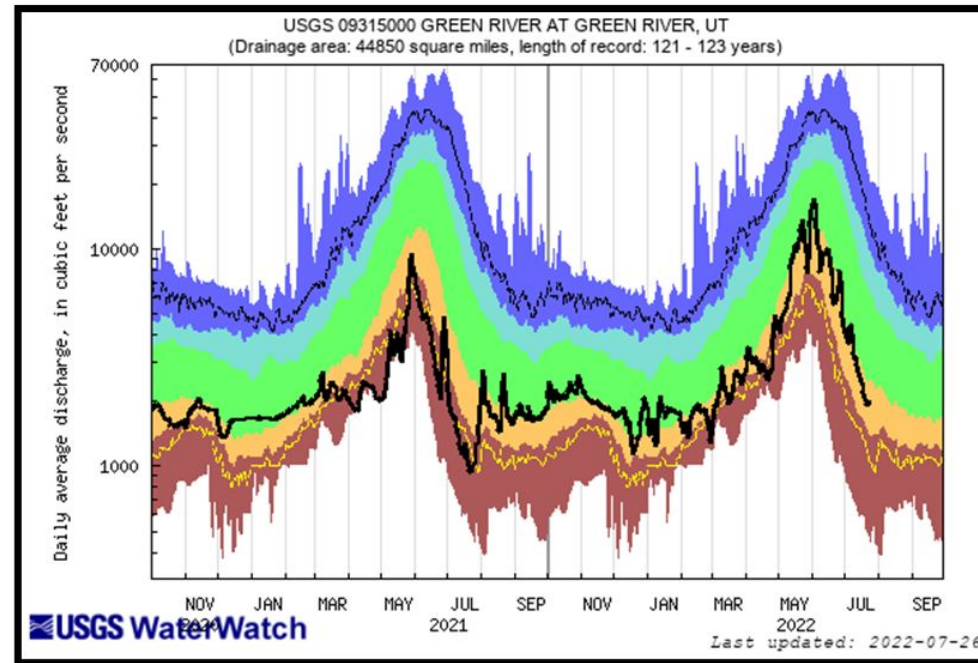


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Streamflow at Selected Gages

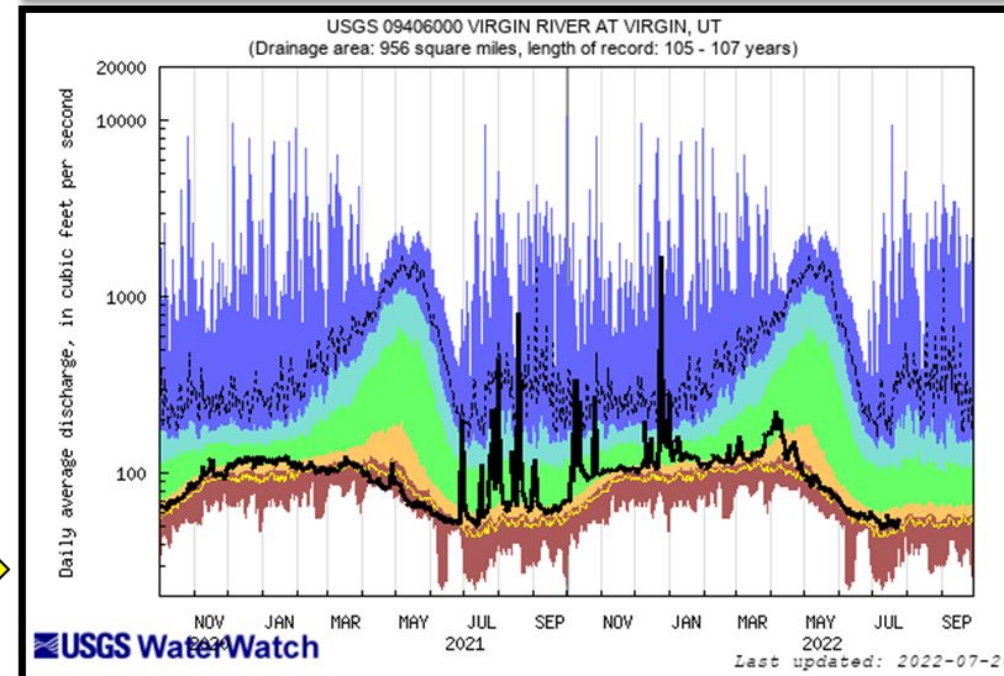
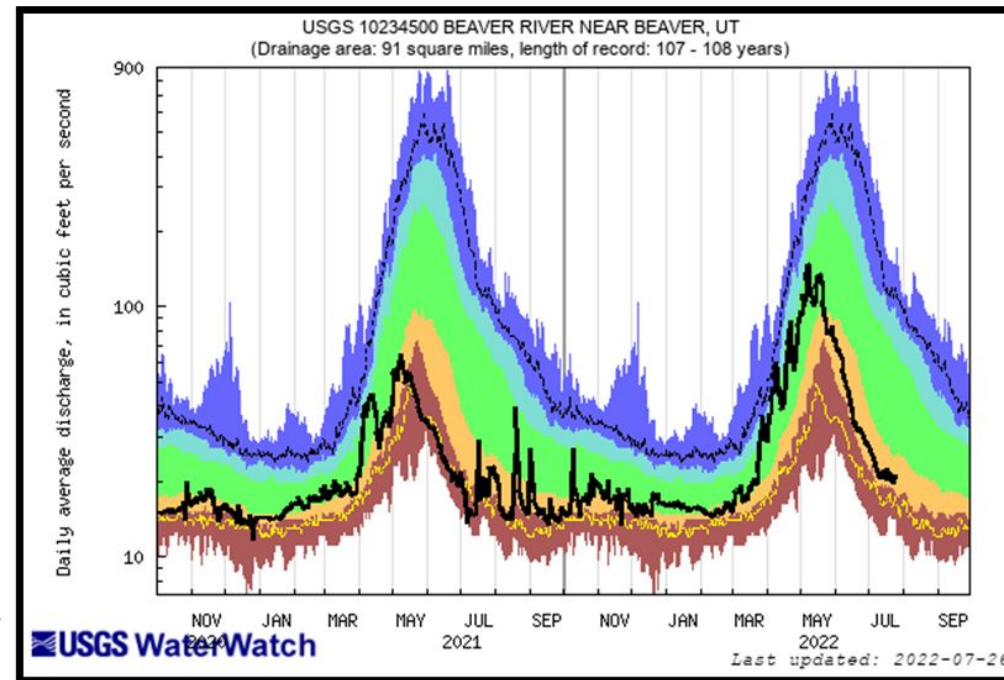
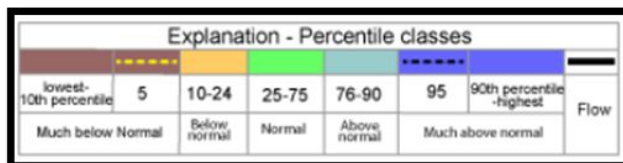
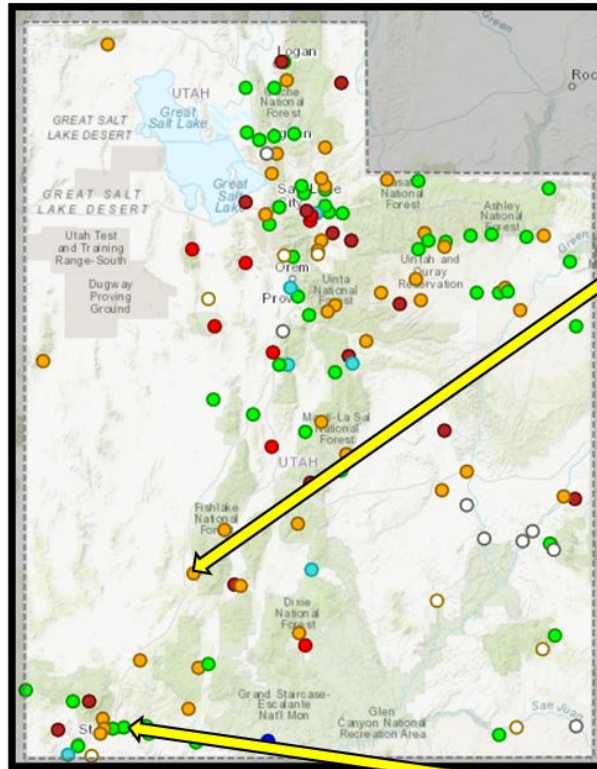


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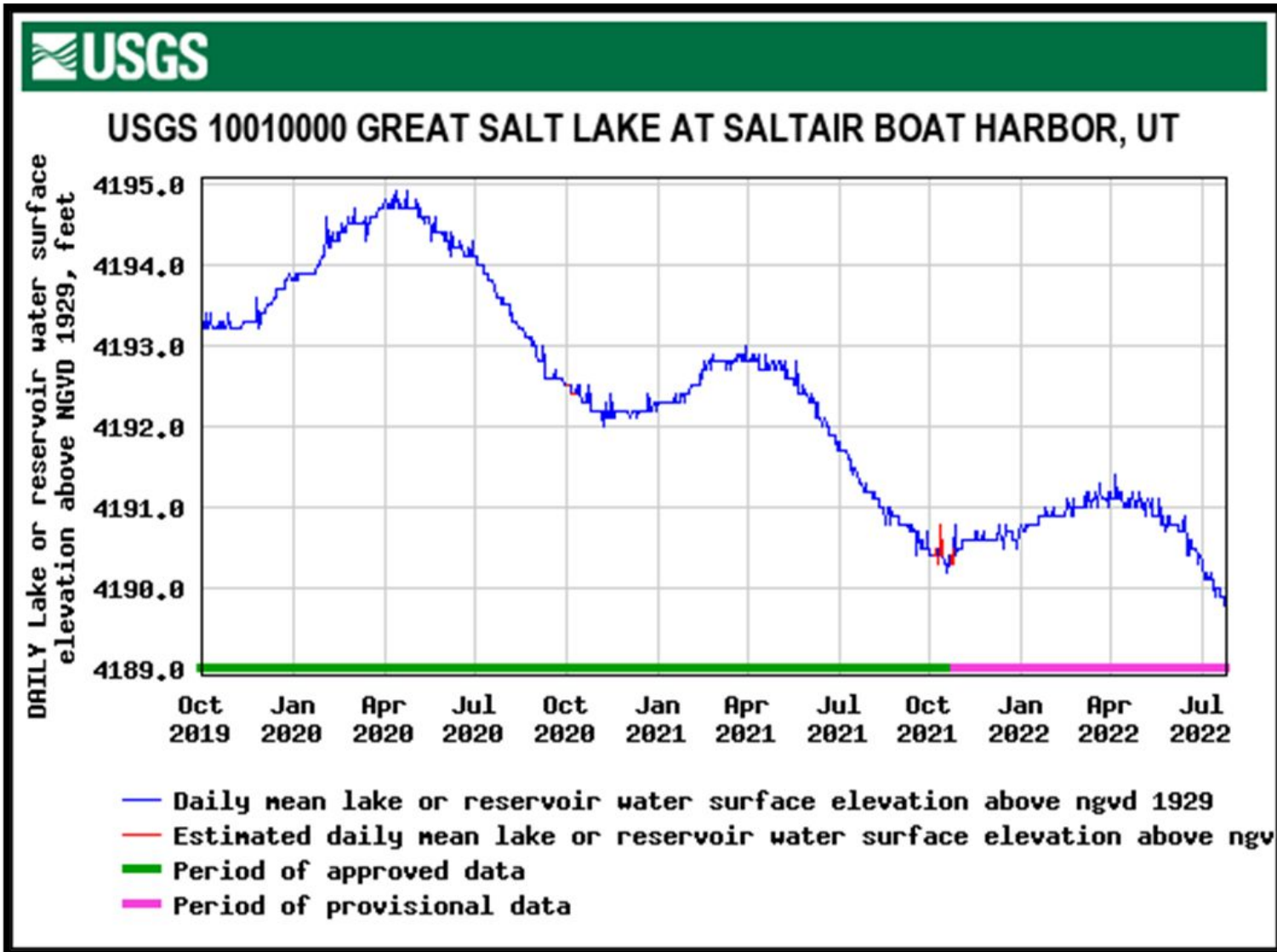
Agency - USGS Utah WSC; Presenter - Ryan Rowland

Streamflow at Selected Gages



Agency - USGS Utah WSC; Presenter - Ryan Rowland

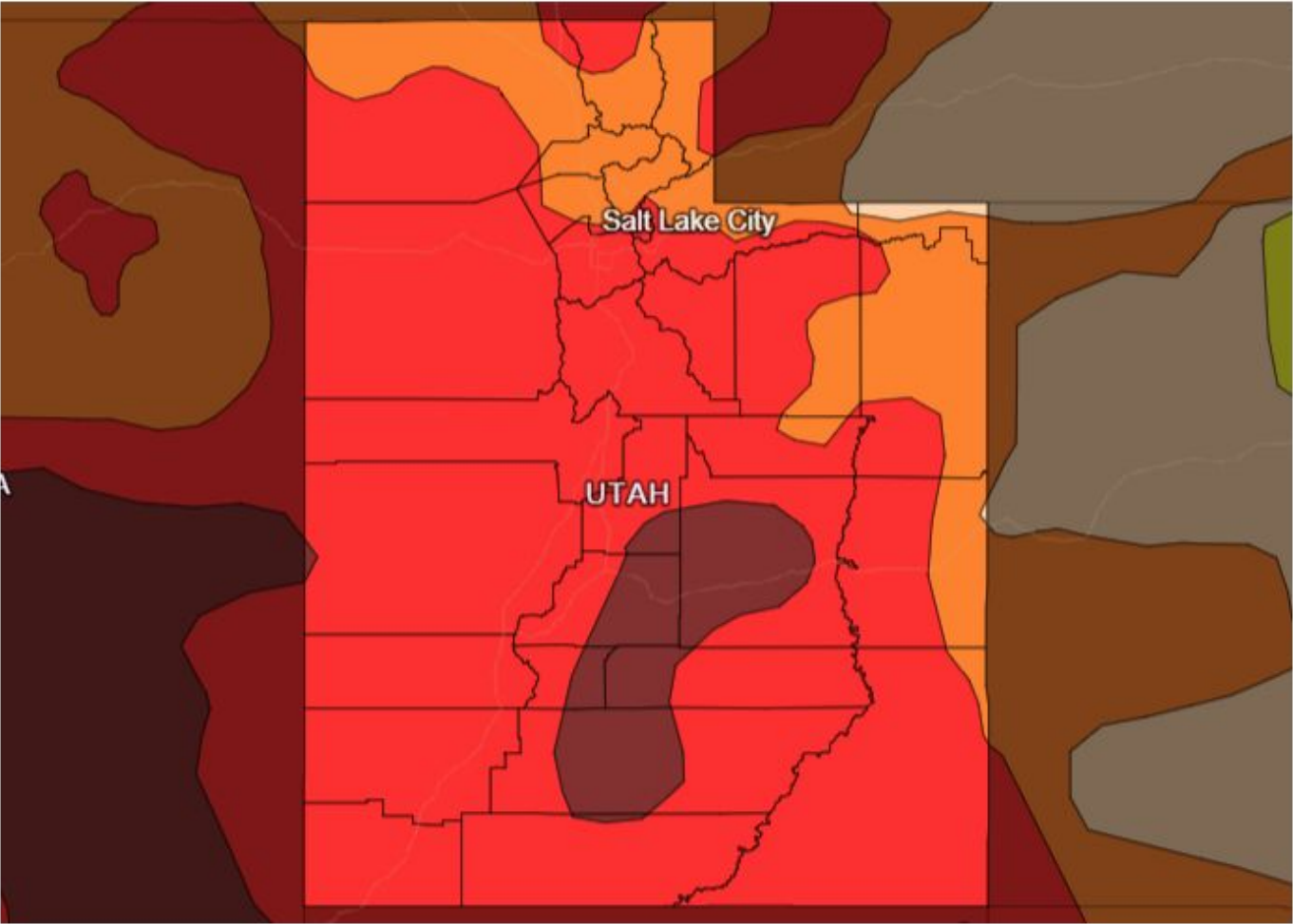
Great Salt Lake Water Surface Elevation



- ❑ Mean daily value 7/25/2022 = 4,189.8' (record low)
- ❑ Mean daily value 7/11/2022 = 4,190.1'

Current Drought Map

Current U.S. Drought Monitor Conditions for Utah: Current



U.S. Drought Monitor for UT



Source(s): NDMC, NOAA, USDA
Updates Weekly - 07/19/22

Drought.gov